

2006  
Summer

# WINNING WITH QUALITY

Talented  
Instructors

The Best  
Online Learning  
Environment

Highly-rated  
Courses



UMass Lowell's Online Programs Win Three National Awards for Excellence (See page 2 for details).

CLASSES BEGIN MAY 22, 2006  
UNDERGRADUATE & GRADUATE  
COURSES

- 3 Certificate Programs
- 5 Degree Programs
- 6 Corporate Education
- 7 Online Degrees & Certificates
- 8 Undergraduate Credit Course Listing
- 15 Graduate Course Listing
- 17 General & Academic Registration Information
- 20 Registration Form

Design: Tepperman/Ray Associates • Printed by Charles River Publishing

University of Massachusetts Lowell  
Continuing Studies and Corporate Education  
One University Avenue  
Lowell, MA 01854-2881  
(978) 934-2480

The University uses multiple mailing lists. If you receive a duplicate copy, please share it with a friend.

Non-Profit Org.  
U.S. Postage  
PAID  
UMass Lowell



# Accelerate Your Education This Summer



UMASS LOWELL  
Receives **3** Awards  
FROM SLOAN-C

- **Excellence in Faculty Development for Online Teaching**  
UMass Lowell Online Teaching Institute
- **Excellence in Institution-Wide Online Teaching & Learning Programming**  
UMass Lowell Online Education Program
- **Excellence in Online Teaching**  
Joan Cannon, UMass Lowell

This summer earn your degree or certificate faster than ever before by taking advantage of UMass Lowell's accelerated summer courses. Classes are conveniently scheduled **ON CAMPUS** or **ONLINE** to fit your busy lifestyle.

Whether you're a full-time undergraduate student looking to lighten your load in the Fall or a working professional looking to advance your career, UMass Lowell has the perfect mix of courses, certificates, and degrees.

With UMass Lowell's flexible scheduling options, you can choose between 6-week intensive on-campus classes, 8- or 10-week accelerated online classes, 12-week online classes or 14-week on-campus classes.

In several recent surveys, students consistently ranked CSCE courses and faculty with high scores:

- 82% of our students said they would take another UML course or recommend one to others
- 89% said the course helped them achieve their goals
- Over 89% of students said instructors were interested in student's learning
- 90% said the syllabus clearly outlined course learning objectives, requirements, grading criteria and student responsibilities
- 92% rated the quality of instruction higher than a 4.0 (on a 5.0 scale)

This summer you can join in this same quality experience by enrolling in one of our 500 undergraduate and graduate courses.

You will find "talented instructors," a "best online learning environment," and "highly-rated courses" taught by caring faculty who are committed to helping you succeed.

To find out just how easy it is to complete your degree or certificate, call our Faculty and Student Support Center at (978) 934-2474 or join us at one of our Information Sessions on May 9th.

## Continuing Education Information Sessions

Please join us for the Continuing Studies and Corporate Education Summer Information Sessions.



### EARLY BIRD INFORMATION SESSION

Continuing Studies Student Support Specialists will hold an Early Bird Information Session for those who would like to learn more about our programs and financial aid. All current students and prospective students are invited to participate. This presentation will be followed by an informal question and answer period.

- Monday, May 1, 2006 at 1:00 pm

CALL THE FACULTY AND STUDENT SUPPORT CENTER TODAY AT (978) 934-2474 TO RESERVE YOUR SPACE. YOU CAN ALSO E-MAIL US AT [CONTINUING\\_EDUCATION@UML.EDU](mailto:CONTINUING_EDUCATION@UML.EDU) TO LEARN MORE ABOUT OUR PROGRAMS.

NEED \$\$\$ FOR SCHOOL?

## scholarships

The following scholarships are available to UMass Lowell Continuing Studies Students:

#### Leo F. King Scholarship

An annual scholarship award for adult learners returning to school.

#### Hoff Scholarship

Up to \$2000.00 for the academic year available to applicants enrolled in a minimum of 3 courses (9 credits) per semester.

#### Dean's Scholarship for Continuing Studies Students

Three \$1000.00 merit/needs based scholarships will be made available to Continuing Studies students enrolled in degree or certificate programs.

#### Millie McGuire Technical Writing Scholarship Fund

Awarded in May each year to a student enrolled in the Technical Writing Certificate program at UMass Lowell.

Contact the Faculty and Student Support Center at 978-934-2474 or visit <http://continuinged.uml.edu/general/scholarships.htm> for additional information.

### New Student Orientation

Tuesday, May 9, 2006 from 6:00-7:00 p.m.  
on UML North.

Are you a new Continuing Studies student? Do you have questions about registration, tuition, financial aid, applying to a degree or certificate program, etc.? Find out how easy it is to get answers to questions such as:

- How do I select a course and check for prerequisites?
- How do I register?
- Am I able to enroll in a degree or certificate program?
- When do I pay for my courses?
- Where is my classroom located?
- How do I take a course online?
- How do I use the electronic library?

Call (978) 934-2474 to reserve your seat!

### Online Orientation Session

Tuesday, May 9, 2006 from 5:30 to 6:15 p.m.  
on UML North.

Come see how **easy** it is to take a course **online!** Want to learn more about taking a course over the Internet? Are you planning on registering for an online course this semester? This orientation will introduce you to the features of your online course and answer any questions you may have.

Call (978) 934-2474 to reserve your seat in this session!



# UNDERGRADUATE Certificate Programs

 **Our Continuing Education Certificate Programs get you one step closer to your degree, faster than you ever imagined possible.**

## TUITION REIMBURSEMENT

**"Tuition assistance programs make comeback at firms... Some employers give as much as \$5,000 a year for workers to pursue undergraduate degrees or professional certificate programs."**

Source: Boston Globe, Sunday, September 25, 2005

At UMass Lowell, 42% of Continuing Studies students surveyed received tuition reimbursement through their employer... **What about you?** Check with your company about its tuition reimbursement program and discover how convenient it is to earn your degree at UMass Lowell!

## Creative Arts/Media

### APPLICATIONS



#### Multimedia Applications

**Use Towards a Degree in Information Technology!\***

The Multimedia Certificate Program at UMass Lowell is one of the largest, most comprehensive programs of study in multimedia available in New England. It draws upon the expertise of several departments, colleges, and centers within the University, as well as outside expertise from industry professionals. You can earn the Certificate in Multimedia Applications online or as a mix of online and on campus courses!

##### Required Courses: (4)

- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.232 Desktop Video Production
- 90.247 Web Authoring: Macromedia® Flash™ MX

##### Electives (Choose 2):

- 42.221 Writing for Interactive Media  
**New Online This Summer!**
- 70.262 Digital Imaging and Photography: Photoshop®
- 70.264 Computer Graphics and Illustration
- 70.291 Introduction to Graphic Design
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design  
**New Online This Summer!**
- 70.384 Advanced Website Design and Development  
**New Online This Summer!**
- 70.385 Streaming Media for the Web
- 78.201 Introduction to Audio for Multimedia and the World Wide Web
- 90.227 Developing Interactive Help Systems
- 90.233 Multimedia Authoring Software: Macromedia Director® MX
- 90.236 Instructional Design for Interactive Media
- 90.238 Website Development: FrontPage®
- 90.239 Multimedia Scripting Using Macromedia Director's Lingo™
- 90.249 Developing IT Training for the Web
- 90.250 E-Commerce on the Web
- 90.291 Introduction to DHTML
- 90.306 Introduction to XML
- 90.347 Rich Web Development with Flash™ MX (Advanced)
- 90.348 Developing Dynamic Websites with ColdFusion® MX



#### Graphic Design & Digital Imaging

**Use Towards a Degree in Information Technology or Liberal Arts!\***

This certificate program offers students interested in breaking into graphic design and electronic publishing an innovative mix of traditional design courses along with several courses in the latest publishing technologies. From traditional graphic design to designing for multimedia and the World Wide Web, students in the program complete numerous portfolio pieces geared towards the professional market.

##### Required Courses: (6)

- 70.291 Introduction to Graphic Design
- 70.240 Fundamentals of Typography
- 70.245 Desktop Publishing: Layout and Production
- 70.262 Digital Imaging and Photography: Photoshop®
- 70.391 Advanced Graphic Design
- 70.400 Portfolio Production Seminar

##### Electives (Choose 3):

- 70.264 Computer Graphics & Illustration
- 70.362 Advanced Digital Imaging
- 70.376 3D Computer Animation
- 70.377 Advanced Animation: After Effects®
- 70.379 Website Design  
**New Online This Summer!**
- 70.384 Advanced Website Design & Development  
**New Online This Summer!**
- 70.392 Design for Advertising
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.233 Multimedia Authoring Software: Macromedia Director® MX
- 90.238 Website Development: FrontPage®
- 90.247 Web Authoring: Flash™ MX

#### NOW ONLINE THIS SUMMER!

- 70.379 Website Design
- 70.384 Advanced Website Design and Development



#### Website Design & Development

**Use Towards a Degree in Information Technology!\***

Local companies are actively pursuing employees with knowledge and skills in website design and development. Note: Students participating in this program should have basic Windows familiarity.

##### Website Design Track

Note: Students pursuing the Website Design Track should have basic familiarity with HTML. Those who do not have basic familiarity with HTML are encouraged to take 90.291 Introduction to DHTML as one of their electives prior to taking the required courses in this program.

##### Required Courses: (4)

- 70.379 Website Design  
**New Online This Summer!**
- 70.384 Advanced Website Design and Development  
**New Online This Summer!**
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.247 Web Authoring: Flash™ MX

##### Electives (Choose 2):

- 70.262 Digital Imaging and Photography: Photoshop®
- 70.385 Streaming Media for the Web
- 78.201 Introduction to Audio for Multimedia and the World Wide Web
- 90.230 Introduction to Multimedia
- 90.238 Website Development: FrontPage®
- 90.248 Website Database Implementation
- 90.250 E-Commerce on the Web
- 90.291 Introduction to DHTML
- 90.292 Advanced DHTML
- 90.302 JavaScript
- 90.306 Introduction to XML
- 90.347 Rich Web Development with Flash™ MX (Advanced)
- 90.348 Developing Dynamic Websites with ColdFusion® MX

##### Website Development Track

##### Required Courses: (4)

- 90.238 Website Development: FrontPage®
- 90.248 Website Database Implementation
- 90.291 Introduction to DHTML
- 90.306 Introduction to XML

#### PLEASE NOTE

UMass Lowell also offers several Online Graduate Certificate Programs

(See page 7 for more details.)

##### Electives: (Choose 2):\*

- 70.379 Website Design  
**New Online This Summer!**
- 70.384 Advanced Website Design and Development  
**New Online This Summer!**
- 70.385 Streaming Media for the Web
- 78.201 Introduction to Audio for Multimedia and the World Wide Web
- 90.227 Developing Interactive Help Systems
- 90.245 Website Server Administration
- 90.246 Active Server Pages
- 90.247 Web Authoring: Flash™ MX
- 90.249 Developing IT Training for the Web
- 90.250 E-Commerce on the Web
- 90.292 Advanced DHTML
- 90.301 Java Programming
- 90.302 JavaScript
- 90.305 Introduction to Perl
- 90.347 Rich Web Development with Flash™ MX (Advanced)
- 90.348 Developing Dynamic Websites with ColdFusion® MX

\*Note: Other 90.xxx courses may be substituted as electives for the Website Development Track with prior approval from the certificate program coordinator.

## Information

### TECHNOLOGY

#### NOW ONLINE!

- 42.221 Writing for Interactive Media
- 90.228 Introduction to Adobe FrameMaker



#### Technical Writing

**Use Towards a Degree in Information Technology!\***

Those with strong writing skills and an aptitude for computers are encouraged to enter this program. Taught by practicing professionals from the high tech industry, students learn to use the most current technologies and processes.

##### Required Courses: (4)


- 42.408 Principles of Technical Writing
- 42.412 Software Writing
- 42.413 Advanced Software Writing
- 90.306 Introduction to XML

##### Electives (Choose 2):\*\*

- 42.221 Writing for Interactive Media  
**New Online This Summer!**
- 90.227 Developing Interactive Help Systems
- 90.228 Introduction to Adobe FrameMaker  
**New Online This Summer!**
- 90.291 Intro to DHTML

\*\* This is a partial list of elective courses. For a complete list of courses that may be applied as electives, see the Continuing Studies website for computer courses with a 90. OR 92. prefix or contact the Faculty and Student Support Center at (978) 934-2474.

## Free software.

GET FREE MICROSOFT® DEVELOPER SOFTWARE WHEN YOU REGISTER FOR CERTAIN UMASS LOWELL COURSES! REFER TO THE COURSES WITH THE  ICON DESIGNATING APPLICABLE COURSES.

FOR A COMPLETE LIST OF ALL APPLICABLE COURSES AND OTHER INFORMATION, PLEASE VISIT <http://continuinged.uml.edu/msdnaa.htm>

\* Many of the courses in these certificate programs can be applied towards a part-time degree. See page 5 or visit our website for more information on degrees. For information on how to apply these courses into your degree, call our Student Support Specialists at (978) 934-2474.



UPDATED  
FOR THE  
SUMMER

## Contemporary Communications

Use Towards a Degree in Information Technology or Liberal Arts!\*

The Contemporary Communications Certificate is intended as an introductory certificate to prepare students for work in a rapidly changing, information-driven workplace. Students will develop skills in research, analysis, writing, graphic presentation of material, and the use of technology as a tool for communication.

### Required Courses: (4 plus 2 electives)

#### Written Communication (Choose 1):

- 42.221 Writing for Interactive Media  
*New Online This Summer!*
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism

#### Computer-Based Communications (Choose 1):

- 90.160 Introduction to Information Systems
- 90.238 Website Development: FrontPage®
- 90.291 Intro to DHTML
- 91.113 Exploring the Internet

#### Strategic Thinking & Effective Communication (Choose 1):

- 45.202 Introduction to Logic
- 46.210 Media and Politics
- 62.201 Marketing Principles
- 90.250 E-Commerce on the Web
- 90.460 Computer Ethics

#### Multimedia/Graphic Design and Development (Choose 1):

- 70.291 Introduction to Graphic Design
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.232 Desktop Video Production

#### Electives (Choose 2 not already taken):

- 42.221 Writing for Interactive Media  
*New Online This Summer!*
- 42.224 Business Writing
- 42.226 Technical and Scientific Communication
- 42.300 Journalism
- 45.202 Introduction to Logic
- 45.205 Argumentation and Rhetoric
- 45.207 Corporate Communications
- 45.356 The History, Theory, and Practice of Rhetoric
- 46.210 Media and Politics
- 46.316 Politics and Film
- 62.201 Marketing Principles
- 70.291 Introduction to Graphic Design
- 90.160 Introduction to Information Systems
- 90.230 Introduction to Multimedia
- 90.231 Graphics for Multimedia and the World Wide Web
- 90.232 Desktop Video Production
- 90.238 Website Development: FrontPage®
- 90.250 E-Commerce on the Web
- 90.291 Intro to DHTML
- 90.460 Computer Ethics
- 91.113 Exploring the Internet

UPDATED  
FOR THE  
SUMMER

## Information Technology

Available on-campus and online

Use Towards a Degree in Information Technology!\*

The need for professionals with a strong information technology background will continue to increase as business, government, schools, and other organizations seek new applications for computers and networks in the workplace. This certificate is designed as an introductory program for those who want to explore a broad range of electives in different subject areas before deciding on an area of specialization.

### Required Courses: (2)

- 90.160 Introduction to Information Systems\*
- 90.202 Introduction to Personal Computing and Microsoft Office\*

#### Electives (Choose 4):\*\*

##### Programming Electives:

- 90.211 Introduction to Programming with C, Part I
- 90.212 Introduction to Programming with C, Part II
- 90.220 Visual Basic
- 90.267 C Programming
- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.270 Visual C++
- 90.364 Problem Solving with C

##### Database Electives:

- 90.171 Applications Software: Access
- 90.342 Web-Enabled Database Development
- 90.474 Relational Database Concepts

##### Multimedia/Web Electives:

- 90.230 Introduction to Multimedia
- 91.113 Exploring the Internet

##### Additional Electives:

- 90.311 Introduction to the UNIX Operating System
- 90.312 Shell Scripting
- 90.461 LAN/WAN Technologies

\*Students with appropriate experience can replace the required courses with any of the electives courses.

\*\*Note: This is a partial list. For the complete list of courses that may be applied as electives, see the Continuing Studies website for computer courses with the 90. prefix, or contact the Faculty and Student Support Center at 978-934-2474.

## Additional Certificate Programs

UMass Lowell also offers certificate programs in:

- Land Surveying
- Nutrition
- Spanish and Latin
- Wastewater Treatment
- Manufacturing Technology
- Paralegal Studies
- American
- Water Treatment

For more information, visit <http://continuinged.uml.edu>

For more information on any of these certificate programs visit our Website at <http://continuinged.uml.edu> or call (978) 934-2474.

UPDATED  
FOR THE  
SUMMER

## Data/Telecommunications

Use Towards a Degree in Information Technology!\*

The Certificate Program in Data/ Telecommunications trains participants for positions as entry-level network administrators, LAN technicians, and system analysts responsible for networking functions in large or small companies.

### Required Courses: (5)

- 90.267 C Programming
- 90.457 Network Security
- 90.461 LAN/WAN Technologies
- 90.462 TCP/IP and Network Architecture
- 90.464 Network Management



## Database Management Technologies

Use Towards a Degree in Information Technology!\*

The Database Management Technologies Certificate program, as part of Oracle Corporation's Academic Initiative (OAI), prepares students for the requirements and rigors of becoming an in-demand Database Administrator or Developer. Centered on the industry-leading Oracle 10g/11i™ product suite, students engage in a progressive learning experience. Hands-on skill building throughout the program will prepare students for challenging and highly rewarding positions in today's data-driven industry.

### Required Courses: (4)

- 90.450 Database Administration I: Introduction to Oracle 10g
- 90.453 Database Administration II: Advanced Oracle 10g
- 90.454 Oracle 10g SQL Development
- 90.459 PL/SQL I: Introduction to Oracle 10g PL/SQL

\*Note: Students with experience equivalent to any of the required courses may substitute up to two electives for the required courses, with prior approval of the program coordinator.

(Choose 3 Electives from either of the following Tracks):

#### Electives: Developer Track

- 90.448 Oracle 10g Portal Development
- 90.449 Oracle 10g Forms and Reports
- 90.467 PL/SQL II: Advanced Oracle 10g PL/SQL
- 90.474 Relational Database Concepts

#### Electives: Administrator Track

- 90.443 Introduction to Client/Server Computing
- 90.455 Database Administration III: Oracle 10g Projects
- 90.466 Oracle 10g Data Warehousing
- 90.479 Oracle 11i Applications DBA

Note: If you would like to, you may choose one elective course from one of the tracks and two elective courses from the other track, as long as you take a total of three elective courses in addition to the required courses above.

**NEW! UNIX Certificate available in accelerated and online format.**



## UNIX®

Use Towards a Degree in Information Technology!\*

The Certificate in UNIX is designed for those currently in the computer industry who want to upgrade their skills, and for those with basic computer literacy who want to enter this fast-growing field. Students learn skills that are immediately applicable in the workplace as well as C Programming, the language in which most networking software is written.

### Required Courses: (4)

- 90.267 C Programming
- 90.311 Introduction to the UNIX Operating System
- 90.312 Shell Scripting
- 90.360 Introduction to Data Structures

#### Electives (Choose 2):

- 90.268 C++ Programming
- 90.269 Advanced C++
- 90.313 UNIX Internals Overview
- 90.316 UNIX System Administration
- 90.318 Advanced UNIX Internals/Tuning
- 90.319 Introduction to Linux
- 90.321 Linux System Administration



## Engineering Technology

UPDATED  
FOR THE  
SUMMER

## Plastics Engineering Technology

Use Towards a Degree in Engineering Technology!\*

The Plastics Engineering Technology Certificate provides professional training in plastics industry theory and technology. Students are given practical instruction applicable to materials, processing, and design engineering. Courses are taught by the Department of Plastics Engineering's staff of international experts. This program is designed to serve adult students already working in positions in plastics or packaging who need formal education in their work areas. Some of the courses in this certificate can be applied towards the B.S. Degree in Mechanical Engineering Technology: Plastics Option.

### Required Courses: (5)

- 27.201 Plastics Material Science I (Commodity Thermoplastics)
- 27.202 Plastics Material Science II (Engineering Thermoplastics)
- 27.331 Injection Molding
- 27.333 Polymer Processing
- 27.345 Principles of Extrusion

**Electives:** (Choose 2 plastics engineering technology elective courses with a 27. prefix)



## Computer Engineering Technology

Use Towards a Degree in Engineering Technology!\*

The Certificate Program in Computer Engineering Technology is designed to provide students with a broad-based knowledge of digital electronics, microprocessors and advanced digital technologies. All the courses in this certificate program can be applied towards the B.S. degree in Electronic Engineering Technology.

### Required Courses: (7)

- 17.341 Logic Design I & Laboratory
- 17.342 Logic Design II & Laboratory
- 17.353 Digital Electronics
- 17.383 Microprocessors A
- 17.384 Microprocessors B
- 90.267 C Programming
- 90.268 C++ Programming



## Electronics Technology

Use Towards a Degree in Engineering Technology!\*

The Certificate Program in Electronics Technology is designed to provide the students with a broad-based knowledge of circuit theory and electronics, with laboratory work included to ensure that good hands-on experience is acquired along with the deep understanding of fundamental and changing technologies. All the computer courses in this certificate program can be applied towards the A.S. or B.S. degree in Electronic Engineering Technology.

### Required Courses: (8)

- 17.213 Circuits I
- 17.214 Circuits II and Laboratory
- 17.215 Circuits III and Laboratory
- 17.216 Circuits IV
- 17.355 Electronics I & Laboratory
- 17.356 Electronics II & Laboratory
- 17.357 Electronics III & Laboratory
- 17.358 Electronics IV & Laboratory

UPDATED  
FOR THE  
SUMMER

## Computer-Assisted Manufacturing

Use Towards a Degree in Engineering Technology!\*

As the United States focuses on the challenges of global economic competition, one of the key tools for sharpening our competitive edge is the use of the computer as an aid to engineering and manufacturing. This certificate is designed to provide engineers, technicians, managers and those working in a manufacturing environment with an introduction to the computer as used to enhance industrial competitiveness.

### Required Courses: (5)

- 23.101 Engineering Graphics
- 23.200 Computer Aided Drafting (CADrf)
- 23.419 Computer Aided Manufacturing
- 23.480 Computer Aided Design (CADes)
- 23.484 Intro Pro-E OR 23.485 Intro to SolidWorks



## Criminal JUSTICE



## Security Management and Homeland Security

Use Towards a Degree in Criminal Justice!\*

Since September 11th, the U.S. Department of Labor has been predicting that the employment of security management personnel will grow faster than all other occupations due to the threat of terrorism. This part-time certificate program is designed for personnel working in the areas of public safety, security management, and law enforcement; executives in corporations responsible for overseeing in-house security programs; and information technology professionals.

### Required Courses: (4)

- 44.115 Introduction to Homeland Security
- 44.241 Physical Security
- 44.312 Security Management
- 90.385 Introduction to Information Security

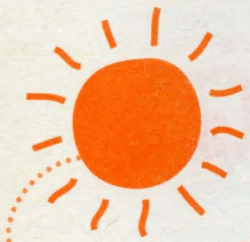
#### Electives (Choose 2):

- 44.212 Weapons of Mass Destruction
- 44.234 Criminal Law
- 44.248 Terrorism
- 44.326 Domestic Terrorism and Hate Crimes
- 44.342 Criminal Profiling
- 44.343 Forensic Psychology
- 44.380 Selected Issues in Criminal Justice

\* Many of the courses in these certificate programs can be applied towards a part-time degree. See page 5 or visit our website for more information on degrees. For information on how to apply these courses into your degree, call our Student Support Specialists at (978) 934-2474.



THIS SUMMER



# Accelerate your progress towards your degree

ON CAMPUS, ONLINE, OR BOTH!



## EARN A BACHELOR'S DEGREE IN

## Liberal Arts

Students whose education plans were interrupted are perfect candidates for UMass Lowell's part-time Liberal Arts Degree. The Bachelor of Liberal Arts (BLA) degree is designed to provide students with a balanced liberal arts curriculum, while also exposing them to an in-depth study in areas of concentration such as psychology, history, art history, women's studies, english, and legal studies.

1. Psychology Concentration
2. Art History Concentration
3. Women's Studies Concentration
4. Legal Studies Concentration

**Courses include:**

- 41.262 Introduction to Business Law
- 41.360 Legal Issues in Racism
- 41.363 Corporate and Property Law
- 41.367 Environmental Law
- 41.370 Real Estate Law
- 41.376 Family Law
- 41.381 Women and the Law
- 41.387 Legal Research Methods
- 41.490 Legal Aspects of Cyberspace

5. History Concentration

**Courses include:**

- 43.107 World History I
- 43.108 World History II
- 43.112 U.S. History Since 1877
- 43.242 The Second World War
- 43.270 Women in American History
- 43.274 Native American History
- 43.308 History of Crime & Social Control
- 43.336 Problems of Modern Ireland
- 43.356 Civil War & Reconstruction
- 43.393 History of the Middle East

6. English Concentration

**Courses include:**

- 42.202 Great Books Modern
- 42.211 Intro to Poetry
- 42.212 Short Story
- 42.216 Monster, Apes & Nightmares
- 42.217 Horror Story
- 42.221 Writing for Interactive Media
- 42.225 Business Writing **OR**
- 42.226 Technical and Scientific Writing
- 42.243 Contemporary Women Writers
- 42.300 Introductions to Journalism
- 42.303 Creative Writing Poetry
- 42.314 Writing Mysteries
- 42.325 Rise of the Novel
- 42.376 Contemporary American Fiction

Email Continuing\_Education@uml.edu or call (978) 934-2474. Additional information on the Bachelor's Degree in Liberal Arts can also be found at <http://continuinged.uml.edu/degrees/bladegree.htm>

## EARN A 2ND BACHELOR'S DEGREE IN

## Information Technology!

Interested in changing careers? If you already have a Bachelor's Degree in another discipline and would like to pursue a second degree in Information Technology, UMass Lowell has a special program for you. Students can pursue a Second Bachelor's in IT by taking 10 additional IT courses in designated areas. See our website at <http://continuinged.uml.edu/degrees/2ndBSIT.htm> for more information.

## EARN A BACHELOR'S DEGREE IN

## Information Technology

Students who graduate with a degree in Information Technology are able to manage networks, write software, build web pages and multimedia presentations, or create and manage databases, depending on the areas they choose to study. The curriculum strikes a balance between theoretical and applied uses of information technology and is taught by faculty who are cutting edge practitioners as well as educators. This degree provides students with the flexibility to integrate previous college and work experience with a program tailored to the student's preferred area of specialization. Concentrations are formulated around areas such as programming, networking, database design and management, graphic design, or multimedia, and combined with general education courses to enable students to complete their degree as quickly as possible with the knowledge they need for their careers.

For more information on our B.S. in Information Technology, please visit our website or call the Faculty and Student Support Center at 978-934-2474.

## EARN A BACHELOR'S DEGREE IN

## Engineering Technology

**Civil Engineering Technology • Electronic Engineering Technology  
Mechanical Engineering Technology**

UMass Lowell's part-time Engineering Technology degree programs are designed to produce graduates who work with, and are able to manage machines, materials, people and processes for industrial firms all over the world. The University's Civil, Mechanical and Electronic Engineering Technology degrees feature a solid foundation in the tools required for problem solving in today's complex world. Our Engineering Technology programs provide the opportunity to prepare for the future while working full time and studying part time. Our advisors will work with you to evaluate credit courses you've taken elsewhere to see if they can be applied towards our degree programs.

**Engineering Technology is your path to success.**

For more information on our part-time degree programs in Engineering Technology, visit <http://continuinged.uml.edu/engtech>. For a free brochure call 978-934-2143 or email Continuing\_Education@uml.edu



NEW

## COMING THIS FALL Bachelor's degree in Psychology **ONLINE!**

The department of Psychology and CSCE are pleased to announce that the Bachelor of Arts Degree in Psychology will be available online this Fall!

- One of UMass Lowell's most popular degree programs for those interested in the social sciences

- Learn anywhere, anytime

For more information about this program, contact Professor Richard Siegel at [Richard\\_Siegel@uml.edu](mailto:Richard_Siegel@uml.edu)

## UNDERGRADUATE DEGREE PROGRAMS

**COLLEGE OF ENGINEERING**
**Associate's Degrees**

Civil Engineering Technology  
Civil Engineering Technology:  
Water Treatment Option  
Civil Engineering Technology:  
Wastewater Treatment Option  
Civil Engineering Technology:  
Surveying Option  
Electronic Engineering Technology  
Mechanical Engineering Technology

**Bachelor's Degrees**

Civil Engineering Technology  
Civil Engineering Technology:  
Environmental Option  
Electronic Engineering Technology  
Mechanical Engineering Technology  
Mechanical Engineering Technology:  
Manufacturing Option  
Mechanical Engineering Technology:  
Plastics Option

The following degree programs are available on a part-time evening basis:

**COLLEGE OF ARTS AND SCIENCES**
**Associate's Degree**

Information Technology

**Bachelor's Degrees**

Applied Mathematics  
Criminal Justice  
Criminal Justice: Paralegal Option  
Information Technology  
Information Technology: Business  
Minor Option  
Liberal Arts  
Mathematics

Mathematics: Statistics Concentration  
Mathematics: Teacher Concentration

**COLLEGE OF MANAGEMENT**
**Associate's Degree**

Management

**Bachelor's Degree**

Business Administration



# CUSTOMIZED TRAINING

*Designed to meet your company's business needs*

\* [HTTP://CONTINUINGED.UML.EDU/CORPORATE](http://continuinged.uml.edu/corporate)

With a large selection of courses and expert instructors, the University of Massachusetts Lowell serves as an important educational resource for companies both nationally and internationally. The University — which is particularly well-known for its Engineering, Information Technology, Computer Science, Health, Management, and Manufacturing programs — provides training to employees on campus and at numerous company locations. Corporate programs can also be delivered online or in a blended format.

A variety of training areas are available, and UMass Lowell can develop customized training programs that feature the industry-specific software and technologies your company uses most! Call (978) 934-2495 to speak with a corporate training specialist or to request a free brochure!

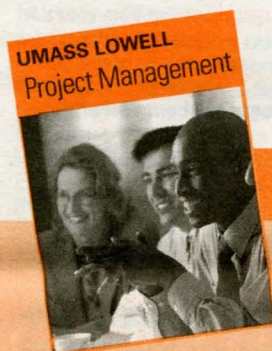
## Some of our training areas include, but are not limited to:

Basic Electronics for Technicians	Life Science Modules	Project Management
Basic Instrumentation & Process Control	Nanotechnology	Safety Training
Business Writing	Object Oriented Programming with C++	Software Configuration Management
Engineering Economics	Oracle 10g Database Administration & Development	Unified Modeling Language (UML)
Extrusion	Plastic Part Design	Embedded Systems
Java Programming		

## Working With Business & Industry

UMass Lowell is constantly exploring new models for collaboration with business and industry. Whether it's collaborating on a workforce training grant, or working together with companies to develop cutting-edge training programs for their employees, the University is actively contributing to growing a workforce knowledgeable of industry-relevant technologies.

Contact us at (978) 934-2495 or email [Catherine\\_Kendrick@uml.edu](mailto:Catherine_Kendrick@uml.edu) to discuss potential opportunities for program collaboration.



SUMMER 2006

To register call (978) 934-2405

## Corporate Signature Seminars Series

*Learn the latest tools and business trends to increase profits and streamline operations...*

### PROJECT MANAGEMENT

#### Project Management: Planning & Scheduling

Two Days  
Meets 9am-4pm; May 4, 5  
Held on the Lowell Campus; Tuition: \$595

#### Project Management: Resources & Budgeting

Two Days  
Meets 9am-4pm; May 18, 19  
Held on the Lowell Campus; Tuition: \$595

### Risk Management

Four Evenings  
Meets 6pm-9:30pm;  
May 31, June 7, 21, 28  
Held at the VA Medical Center in Bedford, MA; Tuition: \$595

### Team Building

One Day  
Meets 9am-4pm; June 9  
Held on the Lowell Campus;  
Tuition \$295

### Leadership Skills

One Day  
Meets 9am-4pm; June 23  
Held on the Lowell Campus; Tuition \$295

### EFFECTIVE BUSINESS WRITING

#### Effective Business Writing

Three Evenings  
Meets 6:30pm-9pm;  
May 4, 11, 18  
Held at the VA Medical Center in Bedford, MA; Tuition: \$295

### Effective Business Writing

One Day  
Meets 9am-4pm; May 16  
Held on the Lowell Campus; Tuition \$295

### DATA ANALYSIS & DECISION-MAKING FOR ENGINEERS, TECHNOLOGISTS AND MANAGERS

#### Data Analysis & Decision-Making

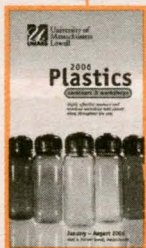
Two Days  
Meets 9am-4pm; May 15, 22  
Held on the Lowell Campus; Tuition \$595

### BASIC ELECTRONICS FOR TECHNICIANS WITH LAB

#### Basic Electronics

Seven Evenings  
Meets 6pm-9pm;  
May 15, 17, 22, 24, 31; June 5, 7  
Held at the VA Medical Center in Bedford, MA; Tuition \$595

Call us at (978) 934-2405 about having these seminars offered at your company or visit <http://continuinged.uml.edu/corporate> for more information.



## INTERESTED IN ON-SITE PLASTICS TRAINING?

UMass Lowell is one of the nation's leading universities in plastics. The Plastics Engineering Department has gained worldwide recognition for its state-of-the-art training, research, and experienced faculty who travel nationally and internationally conferring on newly developed concepts and consulting with plastics industry leaders.

You can attend our plastics seminars on campus or ask us about having our plastics engineering faculty deliver training on-site to your employees! Call 978-934-2144 for information about our on-site plastics training programs!

Call (978) 934-2405 today for a free copy of our 2006 Plastics Seminars & Workshops brochure or visit <http://continuinged.uml.edu/plastics>



## FIND OUT HOW EASY IT IS TO TAKE A COURSE OR COMPLETE YOUR DEGREE ONLINE!

Looking for our online course listings?

They are now integrated into the Undergraduate & Graduate Course Listings on pages 8-17.

JOIN US ON MAY 9, 2006!

JOIN US AT OUR FREE ONLINE ORIENTATION SESSION ON TUESDAY, MAY 9, 2006.  
SEE PAGE 2 FOR DETAILS!

**\* Graduate & Undergraduate**

**\* Fully Accredited**

**\* Affordable Tuition**

With UMass Lowell's online education program, you can take classes from the convenience of your home or office! Register for one or two courses, or pursue a degree or certificate program entirely online.

### Online Undergraduate Degree Programs

- \* Associate's Degree in Information Technology
- \* Bachelor's Degree in Information Technology
- \* Bachelor's Degree in Information Technology: Business Minor
- \* Bachelor's Degree in Liberal Arts

### Online Graduate Degree Programs

- \* Master's Degree in Reading and Language
- \* Master's Degree in Educational Administration
- \* Master's Degree in Criminal Justice
- \* Master's Degree in Curriculum & Instruction

### Online Undergraduate Certificate Programs

- \* Certificate in Contemporary Communications
- \* Certificate in Multimedia Applications
- \* Certificate in UNIX
- \* Certificate in Information Technology
- \* Certificate in Data/Telecommunications

- \* Certificate in Plastics Engineering Technology
- \* Certificate in Paralegal Studies
- \* Certificate in Security Management and Homeland Security

### Online Graduate Certificate Programs

- NEW!** \* Certificate in Behavioral Intervention in Autism
- NEW!** \* Certificate in Security Studies
- \* Certificate in Clinical Pathology
- \* Certificate in Foundations of Business
- \* Certificate in Forensic Criminology
- \* Certificate in Domestic Violence Prevention

Call (978) 934-2474 or visit <http://continuinged.uml.edu/online> to test drive an online course today!  
Note: The University of Massachusetts System offers additional courses and programs online.  
Visit [www.UMassOnline.net](http://www.UMassOnline.net) for more details.

Please note: There are no veteran or senior citizens waivers for online courses.  
Please refer to pages 18-19.

## Learn to Teach Online, Without Commuting to Campus.

The UMass Lowell Online Teaching Institute will help you develop or enhance your online teaching skills. These instructor-led online courses share the latest techniques in online course development and pedagogy.

### INTRODUCTION TO ONLINE TEACHING STRATEGIES

00.054-041 Meets online from May 31 – June 27  
Tuition: \$395

### TEACHING ONLINE WITH WEBCT™ VISTA

00.055-041 Meets online from July 12 – August 8  
Tuition: \$395

A special reduced rate for these noncredit courses is available when four or more participants attend from the same institution. For course descriptions or more information, call (978) 934-2463 or visit our website at <http://continuinged.uml.edu/online/institutes.htm>.

To register for these noncredit courses, call (978) 934-2405.

### Requirements and Registration Procedures for Online Courses

**Online Education Course Registration and Confirmation** Students should make sure they have fulfilled the particular course prerequisites prior to registering for a course. See information on page 17 for details on how to register. Be sure to provide your email address when you register!

**Student Usernames and Passwords** are assigned online via the Registration Confirmation process. All online students are required to complete the online "Registration Confirmation" process one business day after registering for their online course. To check Registration Confirmation availability please visit <http://continuinged.uml.edu/online>. Registration Confirmation is usually made available to students approximately three weeks prior to the start of the semester.

**All Online Students** are encouraged to review the Online Education website at <http://continuinged.uml.edu/online> to view course software and textbook requirements, course outlines, chat hours and other course specific information. Online courses require weekly participation and assignments. Online students can expect to spend 6-10 hours per course each week engaged in course related activities.

**Student Technical Skills and Requirements** All students new to Online Education should complete the free Online Demonstration course available on the Online Education Website. Some online courses require additional software. Students are responsible for learning to use course-related software before enrolling in a Online Education course. Tutorials are available on the Online Education Website.

**Online Course Software Requirements — Be sure to check our website at <http://continuinged.uml.edu/online> to confirm course software requirements.** For the latest information regarding our online courses and programs, visit our website at <http://continuinged.uml.edu/online> or call (978) 934-2474.

## ONLINE GRADUATE CERTIFICATE PROGRAMS!

**NEW!** \* Certificate in Behavioral Intervention in Autism

**NEW!** \* Certificate in Security Studies

Certificate in Clinical Pathology

Certificate in Foundations of Business

Certificate in Forensic Criminology

Certificate in Domestic Violence Prevention



**COMING SOON...** Graduate Certificate in Plastics Engineering Fundamentals **ONLINE!**



# UNDERGRADUATE CREDIT COURSES

## May 22–June 30 Summer Session I

**Day Classes** begin on May 22 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.

**M/W Evening Classes** begin on May 22 and include 3 FRIDAYS: June 2, June 16 and June 23 at the regularly scheduled hours.

**T/Th Evening Classes** begin on May 23 and include 2 FRIDAYS: June 9 and June 30 at the regularly scheduled hours.

*Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.*

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
ACCOUNTING							
1081	60.201-011	Accounting/Financial	T/Th	6:00-9:00 pm	3		Charles F. Thompson
1253	60.201-061	Accounting/Financial (5/22-7/28/06)	> Online Course		3	P: Requires access to a PC; on campus exams required of all UML day students	Clairmont Carter
1082	60.202-011	Accounting/Managerial	M/W	6:00-9:00 pm	3	P: 60.201	George Nogler
2461	60.331-011*	Cost Management Systems	M-Th	10:15 am-12:15 pm	3	P: 60.202; BSBA students (non-Accounting majors) and College of Management Dean permission	George Joseph
*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form." Please visit <a href="http://continuinged.uml.edu/general/information.htm">http://continuinged.uml.edu/general/information.htm</a> to fill out the form online.							
ART/COMPUTER GRAPHICS							
1271	70.262-011*	Digital Imaging and Photography: Photoshop® (Windows)	T/Th	6:30-9:30 pm	3	P: Basic Windows proficiency	Ella Carlson
2462	70.291-011*	Introduction to Graphic Design/Macintosh	T/Th	6:30-9:30 pm	3	P: Basic Mac familiarity	Alison Poor-Donahue
1272	70.379-031* <b>NEW!</b>	Website Design: Dreamweaver®/Windows (5/22-8/18/06)	> Online Course		3	P: 90.238, and 90.231 or 70.262; requires Dreamweaver 8 and Photoshop CS2 software	Christopher Perry
2463	70.384-031* <b>NEW!</b>	Advanced Website Design and Development (5/22-8/18/06)	> Online Course		3	P: 70.379, 90.238; requires Dreamweaver MX or 8	Christopher MacDonald
1094	79.352-011	Aesthetics and Critical Studies of Contemporary Art and Culture	M-Th	12:30-2:30 pm	3	P: 58.203, 58.204	Francine Miller
*NOTE: While the above courses will not directly transfer into the Art Department's Bachelor of Fine Arts Day School degree program, certain two-course clusters may be accepted for transfer upon prior department approval. CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.) CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
ART HISTORY							
1371	58.101-061	Art Appreciation (5/22-7/28/06)	> Online Course		3	AE, HSA/AHD	Liana Cheney
2466	58.300-061	Art History, Music and Culture (5/22-7/28/06)	> Online Course		3	AE, HSA/AH	Liana Cheney
1079	58.494-011	Directed Studies	TBA	TBA	3	P: Instructor permission	Liana Cheney
1080	58.496-011	Practicum Experience: Art History	TBA	TBA	3	P: Instructor permission	Liana Cheney
BIOLOGICAL SCIENCES							
1095	83.101-011	Life Science I	T/Th	6:00-9:00 pm	3	SC	Valerie Graves
1279	83.214-061	Human Ecology (5/22-7/28/06)	> Online Course		3		Priscilla Mattson
1280	83.214-062	Human Ecology (5/22-7/28/06)	> Online Course		3		Priscilla Mattson
CHEMISTRY							
1281	84.101-061	Applied Chemistry for Non-Scientists (5/22-7/28/06)	> Online Course		3	SL/SCL	Philip Lamprey
1282	84.101-062	Applied Chemistry for Non-Scientists (5/22-7/28/06)	> Online Course		3	SL/SCL	Philip Lamprey
1096	84.111-011	General Chemistry I	T/Th	7:00-10:00 pm	3	C: 84.113; SL/SCL	Nicole Krilla
1097	84.113-011	General Chemistry Lab I	T/Th	3:30-6:30 pm	1 (3)	C: 84.111; SL/SCL	Paul Damour
1098	84.121-011	Chemistry I	M/W	7:00-10:00 pm	3	C: 84.123; SL/SCL	Gerald Gajnos
1099	84.122-011	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121; C: 84.124; SL	J. Barry Mahoney
1100	84.123-011	Chemistry Lab I	T/Th	7:00-10:00 pm	1 (3)	C: 84.121; SL	Paul Damour
1101	84.124-011	Chemistry Lab II	T/Th	7:00-10:00 pm	1 (3)	C: 84.122; SL	Theodore Coletta
1102	84.221-011	Organic Chemistry I	M/T/Th	2:45-5:15 pm	3	P: 84.122; C: 84.229	Gene Davis
1103	84.221-012	Organic Chemistry I	T/Th	7:00-10:00 pm	3	P: 84.122; C: 84.229	Gene Davis
1104	84.229-011	Organic Chemistry Laboratory IA	M/W	6:00-10:00 pm	1 (4)	C: 84.221	Judith Freeman
1105	84.229-012	Organic Chemistry Laboratory IA	T/Th	6:00-10:00 pm	1 (4)	C: 84.221	Judith Freeman
CINEMA							
(See courses listed under Cultural Studies and Languages)							
CIVIL ENGINEERING							
2654	14.204-011	Strength of Materials (alternate 22.212)	M-Th	8:00-10:00 am	3	P: 14.203	Faize Jamil
CLIENT/SERVER TECHNOLOGY							
(See courses listed under Information Technology)							
COMPUTER SCIENCE							
2699	91.113-011	Exploring the Internet	T/Th	6:00-9:00 pm	3	Non-CS Majors only	Michael Krolak
1328	91.113-061	Exploring the Internet (5/22-7/28/06)	> Online Course		3	Non-CS Majors only	Patrick Krolak
1367	94.301-021*	Organization of Programming Languages (5/22-8/25/06)	Mon	6:00-9:00 pm	3		Krishnan Seetharaman
1368	94.305-021*	Computer Architecture (5/22-8/25/06)	Wed	6:00-9:00 pm	3		David Hendrickson
1369	94.308-021*	Introduction to Operating Systems (5/22-8/25/06)	Thurs	6:00-9:00 pm	3		Jesus Medina
1370	94.404-021*	Analysis of Algorithms (5/22-8/25/06)	Wed	6:00-9:00 pm	3		Mikhail Zelikov
*Requires permission of Graduate Computer Science Coordinator							
CRIMINAL JUSTICE							
1205	44.115-061	Introduction to Homeland Security (5/22-7/28/06)	> Online Course		3		Allan Roscoe
2472	44.212-061	Weapons of Mass Destruction (5/22-7/28/06)	> Online Course		3		Department Faculty
2487	44.221-011	Criminology	T/Th	7:00-10:00 pm	3		Joseph Burke
2692	44.261-011	Juvenile Delinquency	M/W	7:00-10:00 pm	3		Steven Sacco
1208	44.342-061	Criminal Profiling (5/22-7/28/06)	> Online Course		3		Allan Roscoe
1375	44.395-011	Criminal Justice Statistics	M-Th	10:15 am-12:15 pm	3		Jacob Stowell
2488	44.397-011	Crime Mapping	M-Th	12:30-2:30 pm	3		Jacob Stowell
1045	44.398-011	Criminal Justice Data Analysis	M-Th	10:15 am-12:15 pm	3		Christopher Harris
For permission numbers and questions regarding the Undergraduate Criminal Justice Program, please email Kathy Roscoe at <a href="mailto:Kathleen_Roscoe@uml.edu">Kathleen_Roscoe@uml.edu</a> . CERTIFICATE IN PARALEGAL STUDIES CERTIFICATE IN SECURITY MANAGEMENT AND HOMELAND SECURITY (See page 4 for required courses.)							



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
CULTURAL STUDIES							
(For additional courses, see Art History and Languages)							
2585	59.368-011	Women in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau
ECONOMICS							
1066	49.201-011	Economics I (Microeconomics)	M-Th	8:00-10:00 am	3	P: 90.111; BS/SS	Harjeet Khosla
1067	49.201-012	Economics I (Microeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS/SS	Ronald Olive
1234	49.201-061	Economics I (Microeconomics) (5/22-7/28/06)	> Online Course		3	P: 90.111; BS/SS	Michael Carter
1235	49.201-062	Economics I (Microeconomics) (5/22-7/28/06)	> Online Course		3	P: 90.111; BS/SS	Nurul Aman
1068	49.202-011	Economics II (Macroeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; BS/SS	Patricia Machado
1237	49.202-061	Economics II (Macroeconomics) (5/22-7/28/06)	> Online Course		3	P: 90.111; BS/SS	Michael Carter
1238	49.202-062	Economics II (Macroeconomics) (5/22-7/28/06)	> Online Course		3	P: 90.111; BS/SS	Nurul Aman
1069	49.211-011	Statistics I	M/W	6:00-9:00 pm	3	P: 92.122 or equivalent	Harjeet Khosla
2489	49.325-061	United States Economic History (5/22-7/28/06)	> Online Course		3	P: 49.201 or 49.202; SSD	Carol McDonough
ELECTRICAL AND COMPUTER ENGINEERING							
1003	16.201-011	Circuit Theory I	M/W	12:30-3:30 pm	3	P: 92.132; C: 16.207 or instructor permission	Tenneti Rao
2490	16.265-011	Logic Design I	M/W	9:15 am-12:15 pm	3	P: 25.108 or 91.101	Anh Tran
1006	16.362-011	Signals and Systems I	T/Th	2:30-5:30 pm	3	P: 16.202, 92.236	Mufeed Mah'd
2491	16.363-011	Signals and Systems II	T/Th	12:30-3:30 pm	3	P: 16.362	Oliver Ibe
1007	16.364-011	Engineering Mathematics	M/W	2:00-5:00 pm	3	P: 92.236, 16.201	Anh Tran
1012	16.428-011	Alternative Energy Sources	M/W	6:00-9:00 pm	3	P: Permission of instructor	Ziyad Salameh
1013	16.429-011	Electric Vehicle Technology	T/Th	6:00-9:00 pm	3	P: Permission of instructor	Ziyad Salameh
2493	16.460-011	NEW! Biomedical Instrumentation	T/Th	6:00-9:00 pm	3	P: 92.132, 95.144	Mufeed Mah'd
2494	16.491-011	Industrial Experience I	TBA	TBA	3	P: Permission of instructor	Ziyad Salameh
ENGLISH							
1032	42.101-011*	College Writing I	M-Th	8:00-10:00 am	3		Department Faculty
1187	42.101-031*	College Writing I (5/22-8/18/06)	> Online Course		3	P: Requires MS Word	Richard Keating
2496	42.102-011	College Writing II	T/Th	7:00-10:00 pm	3	P: 42.101	Margery Thibodeau
1190	42.102-031	College Writing II (5/22-8/18/06)	> Online Course		3	P: 42.101; requires MS Word	Marie Salamone
2497	42.211-011	Poetry	M-Th	12:30-2:30 pm	3	P: 42.102; LT/AH	Anthony Szczesiul
1034	42.212-011	The Short Story	M-Th	8:00-10:00 am	3	P: 42.102; LT/AH	Todd Avery
1192	42.212-031	The Short Story (5/22-8/18/06)	> Online Course		3	P: 42.102; LT/AH; requires MS Word	Ashmita Khasnabish
1035	42.217-011	The Horror Story	T/Th	7:00-10:00 pm	3	P: 42.102; LT/AH	Todd Avery
2498	42.217-061	The Horror Story (5/22-7/28/06)	> Online Course		3	P: 42.102; LT/AH; requires MS Word	Lisa Mahoney
2499	42.217-062	The Horror Story (5/22-7/28/06)	> Online Course		3	P: 42.102; LT/AH; requires MS Word	Lisa Mahoney
2500	42.221-031	NEW! Writing for Interactive Media 5/22-8/18/06)	> Online Course		3		Timothy Garrand
1196	42.224-061**	Business Writing (5/22-7/28/06)	> Online Course		3	P: 42.102; requires MSWord	Nancy Brown
1373	42.224-062**	Business Writing (5/22-7/28/06)	> Online Course		3	P: 42.102; requires MS Word	Nancy Brown
2501	42.226-011**	Technical and Scientific Communication	T/Th	6:00-9:00 pm	3	P: 42.102	Peter Payack
2502	42.226-061**	Technical and Scientific Communication (5/22-7/28/06)	> Online Course		3	P: 42.102; requires MS Word	Peter Payack
1036	42.232-011	Turning Fiction into Film	M/W	7:00-10:00 pm	3	P: 42.102; LT	Dina Bozicas
2503	42.267-011	Introduction to Shakespeare	M-Th	10:15 am-12:15 pm	3	P: 42.102; LT/AH	William Hersey
2504	42.291-011	History of English Literature I	M/W	6:00-9:00 pm	3	P: 42.102; LT/AH	Jonathan Martin
1037	42.294-011	History of American Literature I	M-Th	10:15 am-12:15 pm	3	P: 42.102; LT	Anthony Szczesiul
1457	42.413-021	Advanced Software Writing (5/22-8/18/06)	Tues	6:00-9:15 pm	3	P: 42.412	Stephen Murphy
*Students will not receive credit for both 42.101 and 42.103. **Students will not receive credit for both 42.224 and 42.226. CERTIFICATE IN TECHNICAL WRITING (See page 3 for required courses.)							
ENVIRONMENTAL SCIENCE							
1106	87.115-011	Astronomy	T/Th	7:00-10:00 pm	3	SL	Arnold O'Brien
1107	87.117-011	Astronomy Lab	M/W	7:00-9:00 pm	1 (2)	SL	Arnold O'Brien
GRAPHIC DESIGN AND DIGITAL IMAGING							
(See courses listed under Art/Computer Graphics and Information Technology)							
CERTIFICATE IN GRAPHIC DESIGN AND DIGITAL IMAGING (See page 3 for required courses.)							
HEALTH							
2505	31.201-031	Community Health and Environment (5/22-8/18/06)	> Online Course		3	Open to all students	Nicole Champagne
2506	35.101-011	Anatomy and Physiology I	T/Th	6:15-9:15 pm	3	C: 35.103; SL/SCL	Paul Fierimonte
1026	35.103-011	Human Anatomy and Physiology I Lab	T/W/Th	2:00-5:00 pm	1 (3)	C: 35.101; SL/SCL	Edward Kostek
2688	35.207-011	Fitness and Nutrition	T/Th	6:00-9:00 pm	3		Alison Sigler
1027	36.350-011	Human Biochemistry	M-Th	10:15 am-12:15 pm	3	P: 35.252 or equivalent	Thomas Wilson
CERTIFICATE IN NUTRITION							
HISTORY							
(See also Art History)							
1200	43.107-031	World History I (5/22-8/18/06)	> Online Course		3	HS	David Kalivas
1040	43.111-011	U.S. History to 1877	M/W	6:00-9:00 pm	3	HS/AHD	Diane Lewis
1202	43.206-061	American Economic History (5/22-7/28/06)	> Online Course		3	HS	Joseph Lipchitz
2507	43.242-061	World War II (5/22-7/28/06)	> Online Course		3	HS; requires proctored exams	Donald Mattheisen
2508	43.274-061	Native American History (5/22-7/28/06)	> Online Course		3	HS	Diane Lewis
2697	43.350-011	Colonial America	T/Th	6:30-9:30 pm	3	HS/AHD	Harry Hubbard
1042	43.365-011	United States History Since 1960	T/Th	6:00-9:00 pm	3	HS	Stephen Russell
INFORMATION TECHNOLOGY							
(Including Multimedia and Computer Graphics)							
1290	90.160-011	Introduction to Information Systems	M/W	6:00-9:00 pm	3		Christopher Gambon
2509	90.160-061	Introduction to Information Systems (5/22-7/28/06)	> Online Course		3		Syama Chaudhuri
2510	90.160-062	Introduction to Information Systems (5/22-7/28/06)	> Online Course		3		Syama Chaudhuri
1291	90.171-031	Applications Software: Access (5/22-8/18/06)	> Online Course		3	P: Requires MS® Access 2000 or higher; familiarity with MSWord and MS Excel	Janis Ozimek- Maier
1292	90.180-031	Applications Software: Excel (5/22-8/18/06)	> Online Course		3	P: 90.202 or equivalent; requires MS Excel 2002 or higher	Janis Ozimek- Maier
2511	90.202-011	Microsoft® Office	T/Th	6:00-9:00 pm	3	P: Requires MS® Office® XP	Terry Bass
1293	90.202-031	Microsoft® Office (5/22-8/18/06)	> Online Course		3	P: Requires MS® Office® XP or higher	Robin Desmond
2512	90.202-061	Microsoft® Office (5/22-7/28/06)	> Online Course		3	P: Requires MS® Office® XP or higher	Robin Desmond
1109	90.211-011	Introduction to Programming with C-Part I	T/Th	7:00-10:00 pm	3	P: No previous prog. experience required	James Brzowski
1295	90.211-061	Introduction to Programming with C Part I (5/22-7/28/06)	> Online Course		3	P: No previous programming experience required; ANSI C/C++ standard compiler required	James Sears



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
1297	90.212-031	Introduction to Programming with C-Part II (5/22-8/18/06)	> Online Course		3	P: 90.211; requires ANSI C/C++ standard	Lisa Panagopoulos
2513	90.220-011	Visual Basic®	T/Th	7:00-10:00 pm	3		Leo Javits
2514	90.220-031	Visual Basic® (5/22-8/18/06)	> Online Course		3		Carol Thomas
2515	90.224-031	Advanced Visual Basic (5/22-8/18/06)	> Online Course		3	P: 90.220, familiarity with Visual Basic® .NET; requires Visual Studio .NET and Visio Pro 2002 or higher	Carol Thomas
2516	90.228-031	Introduction to Adobe FrameMaker (5/22-8/18/06)	> Online Course		3	Requires Adobe FrameMaker	David Sciuto
1110	90.230-011	Introduction to Multimedia/Windows	T/Th	7:00-10:00 pm	3	P: Basic Mac or Windows proficiency	Chris Perry
2517	90.230-061	Introduction to Multimedia (5/22-7/28/06)	> Online Course		3	P: Basic Mac or Windows proficiency; requires eZedia MX	Robert Graham
2518	90.231-011	Graphics for Multimedia and the World Wide Web/Windows	M/W	6:30-9:30 pm	3	P: 90.230	Marina Javits
1300	90.231-061	Graphics for Multimedia and the World Wide Web/Windows (5/22-7/28/06)	> Online Course		3	P: 90.230; requires Photoshop 5.0 or higher; access to a scanner	Randy Howe
1301	90.232-021	Desktop Video Production (5/22-8/18/06) (Blended course: 6 weeks on campus/6 weeks online)	Tues	7:00-10:00 pm	3	P: 90.230	Michael Lucas
2519	90.238-061	Website Development: Front Page/Windows (5/22-7/28/06)	> Online Course		3	P: 90.291; 90.231 recommended; requires MS FrontPage 2003 (Academic Version ok)	Judith Feeney
1303	90.247-031	Web Authoring: Flash (5/22-8/18/06)	> Online Course		3	P: 90.291, 90.302 or prog. familiarity; requires Macromedia Flash MX or higher	Michael Murie
2520	90.250-061	E-Commerce on the Web (5/22-7/28/06)	> Online Course		3	P: 90.238	Robert Graham
2522	90.267-011	C Programming	M/W	7:00-10:00 pm	3	P: Previous programming experience	Joseph Russell
2523	90.267-041	C Programming (Held at Veterans Administration Medical Conference Center, Bedford, MA)	T/Th	6:00-9:00 pm	3	P: Previous programming experience	Nancy Kiernan
1304	90.267-061	C Programming (5/22-7/28/06)	> Online Course		3	P: Previous programming experience; requires Ansi C/C++ compiler software	Timothy Niesen
2521	90.267-062	C Programming (5/22-7/28/06)	> Online Course		3	P: Previous programming experience; requires Ansi C/C++ compiler software	Timothy Niesen
2524	90.268-011	C++ Programming	M/W	7:00-10:00 pm	3	P: 90.267 or 90.212	Thomas Kostizak
1306	90.268-031	C++ Programming (5/22-8/18/06)	> Online Course		3	P: 90.267 or 90.212; requires C++ compiler software	Department Faculty
2525	90.269-031	Advanced C++ (5/22-8/18/06)	> Online Course		3	P: 90.268, experience with Data Structures; requires C++ compiler software	Lance Smith
2526	90.270-061	Visual C++.Net (5/22-7/28/06)	> Online Course		3	P: 90.268; requires Visual Studio .NET	Barbara Bancroft
2527	90.271-011	C# (C Sharp)	M/W	7:00-10:00 pm	3	P: 90.268 or 90.301	Department Faculty
2528	90.291-061	Introduction to DHTML (5/22-7/28/06)	> Online Course		3		William Dubie
2530	90.292-061	Advanced DHTML (5/22-7/28/06)	> Online Course		3	P: 90.291	Isobel Davis
1111	90.297-011	Introduction to Java Programming	M/W	7:00-10:00 pm	3	P: Previous prog. experience required	James Brzowski
2564	90.297-061	Introduction to Java Programming (5/22-7/28/06)	> Online Course		3	P: Previous programming experience required; requires J2Se, Version 5.0 or higher	Lance Smith
1112	90.301-011	Java™ Programming/Windows	T/Th	7:00-10:00 pm	3	P: 90.297 or 90.268	Peter Weston
1309	90.301-031	Java™ Programming/Windows (5/22-8/18/06)	> Online Course		3	P: 90.297 or 90.268	Department Faculty
2566	90.302-031	JavaScript (5/22-8/18/06)	> Online Course		3	P: 90.291 or knowledge of HTML	David Sciuto
2567	90.303-031	Advanced Java Programming (5/22-8/18/06)	> Online Course		3	Requires Sun Java Development Kit	N. Fred Yao
2568	90.305-061	Introduction to Perl (5/22-7/28/06)	> Online Course		3	P: 90.267	Gregory Rushton
1311	90.306-031	Introduction to XML (5/22-8/18/06)	> Online Course		3	P: 90.291 and 90.474; mastery of DHTML and familiarity with database concepts; requires Altova's XML Spy Home Version	David Sciuto
1113	90.311-011	Introduction to the UNIX® Operating System	T/Th	7:00-10:00 pm	3		Andrew Garside
2569	90.311-061	Introduction to the UNIX Operating System (5/22-7/28/06)	> Online Course		3		Fred Vegliante
2570	90.312-011	Shell Scripting	T/Th	7:00-10:00 pm	3	P: 90.311, and 90.267 or 90.212	Sean McGowan
2571	90.312-061	Shell Scripting (5/22-7/28/06)	> Online Course		3	P: 90.311, and 90.267 or 90.212	Michael Richards
2572	90.316-061	UNIX System Administration (5/22-7/28/06)	> Online Course		3	P: 90.312	Michael Richards
2573	90.319-031	Introduction to Linux® Programming (5/22-8/18/06)	> Online Course		3	P: Requires Fedora (Install Core 3 or 4)	C. Justin Seiferth
2574	90.321-061	Linux System Administration (5/22-7/28/06)	> Online Course		3	P: Shell Scripting experience; required software included with text	Barbara Bancroft
2696	90.360-061	Introduction to Data Structures Using C (5/22-7/28/06)	> Online Course		3	P: 90.364, and 90.267 or 90.212; requires Ansi C/C++ compiler software	Isobel Davis
1316	90.364-031	Problem Solving with C (5/22-8/18/06)	> Online Course		3	P: 90.212 or 90.267; requires Ansi C/C++ software	Sean McGowan
2705	90.385-031	Introduction to Information Security (5/22-8/18/06)	> Online Course		3	P: 90.160 and 90.202, or equivalent	Tak Yin Wong
2575	90.443-011	Fundamentals of Client/Server Computing	T/Th	6:00-9:00 pm	3		Umesh Bhargava
2576	90.450-011	Database Administration I: Introduction to Oracle 10g	T/Th	7:00-10:00 pm	3		T. Michael Cummings
1318	90.457-031	Network Security (5/22-8/18/06)	> Online Course		3	P: 90.462 or related experience	Tak Yin Wong
2577	90.459-011	PL/SQL I: Introduction to Oracle 10g PL/SQL	M/W	7:00-10:00 pm	3		Leon Xia
1320	90.460-031	Computer Ethics (5/22-8/18/06)	> Online Course		3	VC	Paul Giguere
2578	90.461-011	LAN/WAN Technologies	T/Th	6:00-9:00 pm	3	P: 90.267 or previous prog. experience	Jaime Fernandez
1322	90.461-031	LAN/WAN Technologies (5/22-8/18/06)	> Online Course		3	P: 90.267 or previous prog. experience	Ed Barnes
2579	90.462-011	TCP/IP and Network Architecture	T/Th	6:00-9:00 pm	3	P: 90.461	Arvind Kukreja
1323	90.462-031	TCP/IP and Network Architecture (5/22-8/18/06)	> Online Course		3	P: 90.461	Ed Barnes
1324	90.464-031	Network Management (5/22-8/18/06)	> Online Course		3	P: 90.461	Jaime Fernandez
2580	90.474-021	Relational Database Concepts (5/22-8/18/06)	Thurs	7:00-10:15 pm	3	P: 90.267	Robert Demers
1325	90.474-031	Relational Database Concepts (5/22-8/18/06)	> Online Course		3	P: 90.267	Paul Giguere
1326	90.480-031	Project-Based Information Systems (5/22-8/18/06)	> Online Course		6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478; requires MS PowerPoint or OpenOffice	Jon Forsyth
2582	90.480-032	Project-Based Information Systems (5/22-8/18/06)	> Online Course		6	P: Junior status; can be used to replace the sequence of 90.477 and 90.478; requires MS PowerPoint or OpenOffice	Jon Forsyth

CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)  
CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)  
CERTIFICATE IN DATA/TELECOMMUNICATIONS (See page 4 for required courses.)  
CERTIFICATE IN FUNDAMENTALS OF INFORMATION TECHNOLOGY (See page 4 for required courses.)  
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)  
CERTIFICATE IN UNIX (See page 4 for required courses.)  
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)

## LANGUAGES

1070	50.211-011	Intermediate Conversational French I	M/W	7:00-10:00 pm	3	P: 50.102 or equivalent	Joseph Garreau
2694	50.378-011	Women in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau
1072	52.335-011	Cinema and Italian Americans	M-Th	10:15 am-12:15 pm	3	VCA; conducted in English	Mario Aste
2583	52.378-011	Italian Cinema and Culture	M-Th	8:00-10:00 am	3	VCA; conducted in English	Mario Aste
1073	54.101-011	Beginning Spanish I	M-Th	8:00-10:00 am	3		William Reyes
1074	54.101-012	Beginning Spanish I	M/W	7:00-10:00 pm	3		Kimberly Vitchkoski

❖ (See page 3 for details.)

See our Website at <http://continuinged.uml.edu>



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
1075	54.211-011	Intermediate Conversational Spanish I	M-Th	10:15 am-12:15 pm	3	P: 54.102 or equivalent	Francisca Gonzales-Arias
1076	54.211-012	Intermediate Conversational Spanish I	T/Th	7:00-10:00 pm	3	P: 54.102 or equivalent	Lorraine Hanley
2584	54.411-031	Hispanic Short Fiction (5/22-8/18/06)	> Online Course		3	AE; conducted in English; requires MS Word	Francisca Gonzales-Arias
2585	59.368-011	Women in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau
CERTIFICATE IN SPANISH							

## LEGAL STUDIES

(See also Paralegal Studies)

2586	41.262-011	Business Law	T/Th	6:30-9:30 pm	3	SS	William Burke
1028	41.363-011	Corporate and Property Law	T/Th	6:30-9:30 pm	3		Eugene Reardon
2689	41.366-031	NEW! International Law (5/22-8/18/06)	> Online Course		3		Bernard Cookson
2690	41.367-011	Environmental Law	M/W	6:30-9:30 pm	3		William Burke
1182	41.370-031	Real Estate Law (5/22-8/18/06)	> Online Course		3		Patricia Sullivan Talty
1030	41.376-011	Family Law	M/W	7:00-10:00 pm	3		Russell Karl
2627	41.381-031	Women and the Law (5/22-8/18/06)	> Online Course		3	Requires MS Word	Donna Zils Banfield
2589	41.387-031	Legal Research Methods (5/22-8/18/06)	> Online Course		3	Law library access required	Martha Lipchitz
2590	41.390-061	Litigation (5/22-7/28/06)	> Online Course		3		Ellen Curran
1031	41.497-011	Paralegal Practicum	TBA	TBA	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coordinator, Legal Studies; call (978) 934-2765	William Burke

CERTIFICATE IN PARALEGAL STUDIES

## MANAGEMENT

1083	61.300-011*	Investments	M/W	6:00-9:00 pm	3	P: 60.201, COM filter courses, Junior standing, BSBA students and College of Management Dean permission	Frank Andrews
1084	61.301-011*	Business Finance	M/W	6:00-9:00 pm	3	P: 60.201, 49.201, 49.202, COM filter courses, BSBA majors or Business Minor/BSIT/ASIT with 54 + credits and College of Management Dean permission	Ravi Jain
1256	61.301-061*	Business Finance (5/22-7/14/06)	> Online Course		3	P: 60.201, 49.201, 49.202, COM filter courses, BSBA majors or Business Minor/BSIT/ASIT with 54 + credits and College of Management Dean permission. requires proctored exams and logarithm calculator	Yash Puri
2593	61.303-011*	Methods of Financial Analysis	T/Th	6:00-9:00 pm	3	P: 61.301, BSBA majors and College of Management Dean permission	Ravi Jain
1259	62.201-061	Marketing Principles (5/22-7/14/06)	> Online Course		3	P: 47.101, 48.101, 49.201; requires proctored exams	Duncan LaBay
1087	63.210-011	Operations Analysis Techniques	M/W	8:00-11:00 am	3	P: 49.211	M. Riaz Khan
2595	63.301-011*	Management Information Systems	T/Th	9:00 am-Noon	3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and College of Mgmt. Dean permission	Edward Chen
1263	63.301-061*	Management Information Systems (5/22-7/14/06)	> Online Course		3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and College of Mgmt. Dean permission requires proctored exams	David Lewis
1267	66.301-061*	Organizational Behavior (5/22-7/14/06)	> Online Course		3	P: COM filter courses, BSBA majors or Business minor/BSIT/ASIT with 54+ credits and College of Management Dean permission; requires proctored exams and College of Mgmt. Dean permission	Stuart Freedman
1088	66.490-011*	Strategic Management	T/Th	9:00 am-Noon	3	P: Graduating seniors only; BSBA students and College of Mgmt. Dean permission	Ashwin Mehta

\*Before registering for all 300/400-level College of Management courses, students must meet all prerequisites and submit a "College of Management Dean Permission Request Form". Please visit <http://continuinged.uml.edu/general/information.htm> to fill out the form online.

## MATHEMATICS

1108	90.111-011*	Fundamentals of Algebra	T/Th	7:00-10:00 pm	3		Anthony Sokolowski
1114	92.111-011	Quantitative Reasoning	M-Th	10:15 am-12:15 pm	3	P: Two years of high school algebra; Liberal Arts majors only; no credit toward a degree in science or engineering; MA	Alan Kaplan
2598	92.120-011**	Precalculus Mathematics (Previously 92.121)	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class	Alan Kaplan
2599	92.120-012**	Precalculus Mathematics (Previously 92.121)	T/Th	6:30-9:30 pm	3	P: 90.111 or equivalent or satisfactory score on the Math Placement Exam given the first evening of class	Candice Weston
2600	92.120-061**	Precalculus Mathematics (5/22-7/28/06) (Previously 92.121)	> Online Course		3	P: 90.111 or equivalent; MA; designed for students who can work independently in math	Alan Doerr
1117	92.122-011	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 92.119 or 92.121 or equivalent; not for science or engineering majors; MA	Alexander Olsen
1118	92.122-012	Management Calculus	M/W	6:00-9:00 pm	3	P: 92.119 or 92.121 or equivalent; not for science or engineering majors; MA	Patricia Gifford
2602	92.123-011	Precalculus Mathematics II	T/Th	6:30-9:30 pm	3	P: 92.121; MA	Patricia Gifford
1119	92.125-011	Calculus A	T/Th	6:00-9:00 pm	3	P: 92.123; MA	Robert Johnson
2605	92.126-011	Calculus B	M/W	6:00-9:00 pm	3	P: 92.125; MA	Theresa Schille
1337	92.131-021	Calculus I (5/22-8/18/06)	M/W/F	8:00-10:00 am	4	MA	John Lahoud
1338	92.131-022	Calculus I (5/22-8/18/06)	M/W/F	10:15 am-12:15 pm	4	MA	John Lahoud
1339	92.132-021	Calculus II (5/22-8/18/06)	M/W/F	8:00-10:00 am	4	P: 92.131; MA	Marvin Stick
1340	92.132-022	Calculus II (5/22-8/18/06)	M/W/F	10:15 am-12:15 pm	4	P: 92.131; MA	Marvin Stick
2607	92.151-011	Explorations in Mathematics	M/W	6:30-9:30 pm	3	Liberal Arts majors only; MA	Department Faculty
2608	92.183-011	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Department Faculty
1120	92.183-012	Introduction to Statistics	M/W	6:00-9:00 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
1343	92.183-031	Introduction to Statistics (5/22-8/18/06)	> Online Course		3	P: 90.111 or equivalent; MA	Ann Marie Hurley
2609	92.183-061	Introduction to Statistics (5/22-7/28/06)	> Online Course		3	P: 90.111 or equivalent; MA	Ann Marie Hurley
2610	92.225-011	Calculus C	T/Th	6:00-9:00 pm	3	P: 92.126; MA	Philip Breen
2611	92.226-011	Calculus D	M/W	6:00-9:00 pm	3	P: 92.225	Rida Mirie
1121	92.231-011	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132	Vidhu Prasad
1122	92.234-011	Differential Equations	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie
2612	92.236-011	Engineering Differential Equations	M-F	8:00-10:00 am	3 (4)	P: 92.225 or 92.132	Vidhu Prasad
2613	92.321-011	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 90.112 or 92.121	Anthony Penta
2614	92.321-061	Discrete Structures I (5/22-7/28/06)	> Online Course		3	P: 90.112 or 92.121; designed for students who can work independently in math	Alan Doerr
2615	92.322-011	Discrete Structures II	M-Th	10:15 am-12:15 pm	3	P: 92.321	Alan Doerr
2616	92.363-011	Introduction to Data Analysis	M-Th	10:15 am-12:15 pm	3	P: 92.183 or equivalent; MA	Department Faculty
1124	92.386-011	Probability and Statistics I	M/W	6:00-9:00 pm	3	P: 92.225 or 92.132	Chittur Venkatesh
1349	92.419-031	Introduction to Mathematica® (5/22-8/18/06)	> Online Course		3	Requires Mathematica 4.0 or higher	Kenneth Levasseur
2617	92.450-011	Mathematical Modeling	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	James Graham Eagle

\*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.

\*\*Credit is given for only one of the three following courses: 90.119, 92.120 or 92.121. For students in the Information Technology Program, 92.120 or 92.121 can be substituted for the combination of 90.112 and 90.119.

University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.



# UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>MECHANICAL ENGINEERING</b>							
2618	22.212-011	Strength of Materials (alternate 14.204)	M-Th	8:00-10:00 am	3	P: 22.211	Faize Jamil
CERTIFICATE IN COMPUTER-ASSISTED MANUFACTURING (See page 4 for required courses.)							
CERTIFICATE IN MANUFACTURING TECHNOLOGY							
<b>MULTIMEDIA APPLICATIONS</b>							
(See courses listed under Information Technology)							
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)							
<b>MUSIC</b>							
1090	71.102-011	Music Theory 2	M-Th	8:00-10:00 am	3	P: 71.101	Andrea Kowalski
1091	71.104-011	Aural Skills 2	M-Th	10:15-11:35 am	1 (2)	P: 71.103	Philip Nauman
1092	71.201-011	Music Theory 3	M-Th	10:15 am-12:15 pm	3	P: 71.102	Department Faculty
1093	71.203-011	Aural Skills 3	M-Th	8:00-9:20 am	1 (2)	P: 71.102	Philip Nauman
1277	77.499-021	Music Business Internship (5/22-8/18/06)	TBA	TBA	6	P: Permission of Chair	Alan Williams
1278	78.493-021	Internship in Sound Recording Technology (5/22-8/18/06)	TBA	TBA	6	P: Permission of Coordinator	William Moylan
<b>PARALEGAL STUDIES</b>							
(See also Legal Studies)							
1028	41.363-011	Corporate and Property Law	T/Th	6:30-9:30 pm	3		Eugene Reardon
1182	41.370-031	Real Estate Law (5/22-8/18/06)	> Online Course		3		Patricia Sullivan Talty
1030	41.376-011	Family Law	M/W	7:00-10:00 pm	3		Russell Karl
2589	41.387-031	Legal Research Methods (5/22-8/18/06)	> Online Course		3	Law library access required	Martha Lipchitz
2590	41.390-061	Litigation (5/22-7/28/06)	> Online Course		3		Ellen Curran
1031	41.497-011	Paralegal Practicum	TBA	TBA	3	P: Minimum of three paralegal courses and permission of Prof. William Burke, Coordinator, Legal Studies; call (978) 934-2765	William Burke
CERTIFICATE IN PARALEGAL STUDIES							
<b>PHILOSOPHY</b>							
1048	45.201-011	Introduction to Philosophy	T/Th	7:00-10:00 pm	3	VC, AHE	Michael Koran
1216	45.201-031	Introduction to Philosophy (5/22-8/18/06)	> Online Course		3	VC, AHE	Donald LeBlanc
1049	45.202-011	Introduction to Logic	T/Th	7:00-10:00 pm	3	VC, AHE	James Hart
1050	45.203-011	Introduction to Ethics	M/W	7:00-10:00 pm	3	VC, AHDE	Jacob Bridge
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
<b>PHYSICS</b>							
1129	95.103-011	General Physics I	M-Th	8:00-10:00 am	3	C: 96.103; SL	Arthur Mittler
1130	95.141-011	Physics I	M-F	8:00-10:00 am	3 (4)	C: 92.131, 96.141; SL	F. Raymond Hardy
1131	95.144-011	Physics II	M-F	8:00-10:00 am	3 (4)	P: 95.141. C: 92.132, 96.144; SL	Kunnat Sebastian
1132	96.103-011	General Physics I Lab (2 days/week)	T/Th	1:00-4:00 pm	1 (2)	C: 95.103 or 95.201; SL	Arthur Mittler
1133	96.141-011	Physics I Lab (2 days/week)	M/W	1:00-4:00 pm	1 (2)	C: 95.141; SL	F. Raymond Hardy
1134	96.144-011	Physics II Lab (2 days/week)	T/Th	1:00-4:00 pm	1 (2)	P: 96.141. C: 95.144; SL	David Pullen
1135	99.101-011	Radiation and Life	M/W	6:00-9:00 pm	3	C: 99.102; SL	Thomas Regan
1136	99.102-011	Radiation and Life Lab	M/W	3:30-5:30 pm	1 (2)	P: or C: 99.101; SL	Thomas Regan
<b>PLASTICS</b>							
1023	27.451-011	Selected Topics I	M/W	7:00-10:00 pm	3		Stephen Driscoll
1024	27.453-011	Selected Topics III	T/Th	7:00-10:00 pm	3		Stephen Driscoll
CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY (See page 4 for required courses.)							
<b>POLITICAL SCIENCE</b>							
1051	46.101-011	Introduction to American Politics	M/W	6:00-9:00 pm	3	BS/SS	Francis Talty
1052	46.110-011	Introduction to Politics	M-Th	10:15 am-12:15 pm	3	BS/SSD	George Anthes
2619	46.121-011	Introduction to International Relations	M-Th	10:15 am-12:15 pm	3	SSD	Arend Holtslag
<b>PSYCHOLOGY</b>							
1054	47.101-011	General Psychology	T/Th	6:30-9:30 pm	3	BS/SS	John Kendrick
1221	47.101-061	General Psychology (5/22-7/28/06)	> Online Course		3	BS/SS; requires MS Word	Meredith Stanford-Pollock
1222	47.101-062	General Psychology (5/22-7/28/06)	> Online Course		3	BS/SS; requires MS Word	Meredith Stanford-Pollock
2620	47.209-011	Social Psychology	M-Th	12:30-2:30 pm	3	P: or C: 47.101; SSD	Jason Lawrence
2621	47.232-061	Psychology of Personality (5/22-7/28/06)	> Online Course		3	P: or C: 47.101; BS/SS; requires MS Word	Joan Cannon
2622	47.260-031	Child and Adolescent Development (formerly Human Development I) (5/22-8/18/06)	> Online Course		3	P: or C: 47.101; BS/SS	Jane Worthley
1056	47.272-011	Abnormal Psychology	M/W	6:00-9:00 pm	3	P: 47.101; BS/SS	Marc Wilson
1057	47.273-011	Brain, Mind and Behavior	M-Th	8:00-10:00 am	3	P: 47.101	Mary Duell
1224	47.312-031	Learning and Behavior (5/22-8/18/06)	> Online Course		3	P: 47.101; BS	Charlotte Mandell
2623	47.328-011	Dynamics of Interpersonal Relations	M/W	6:00-9:00 pm	3	P: 47.101; BS	Deborah Busser
2624	47.351-061	Human Sexuality (5/22-7/28/06)	> Online Course		3	P: 47.101; BS/SS	Mary Duell
2625	47.472-061 NEW!	Seminar: Personality (5/22-7/28/06)	> Online Course		3	P: 47.101	Joan Cannon
1058	47.475-011	Seminar: Clinical Psychology	M/W	2:45-5:45 pm	3	P: 47.101, and 47.232 or 47.272 or related experience	Peter Hantzis
1227	47.477-031	Seminar: Contemporary Trends-Addictions (5/22-8/18/06)	> Online Course		3	P: 47.101; other prerequisites may be specified by the instructor; requires MS Word	Richard Siegel
<b>SOCIOLOGY</b>							
1060	48.101-011	Introduction to Sociology	M-Th	8:00-10:00 am	3	BS/SSDE	Levon Chorbajian
2626	48.220-061	Self-Assessment and Career Development (5/22-7/28/06)	> Online Course		3		Charlene Drake
1061	48.234-011	Study of Minorities	M/W	7:00-10:00 pm	3	P: 48.101	Christopher Cass
1063	48.260-011	Sociology of Mass Media	T/Th	7:00-10:00 pm	3	P: 48.101; Human Values, BSV	Levon Chorbajian
1064	48.276-011	Sociology of the Gun	T/Th	7:00-10:00 pm	3	P: 48.101	Christopher Cass
<b>TECHNICAL WRITING</b>							
1457	42.413-021	Advanced Software Writing (5/22-8/18/06)	Tues	6:00-9:15 pm	3	P: 42.412	Stephen Murphy
CERTIFICATE IN TECHNICAL WRITING (See page 3 for required courses.)							
<b>WEBSITE DESIGN AND DEVELOPMENT</b>							
(See courses listed under Information Technology)							
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
<b>WOMEN'S STUDIES</b>							
2627	41.381-031	Women and the Law (5/22-8/18/06)	> Online Course		3	Requires MS Word	Donna Zils Banfield
2585	59.368-011	Women in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau



July 10–August 18  
Summer Session II

**Day Classes** begin on July 10 and meet Monday through Thursday for 3-credit courses and meet Monday through Friday for 4-credit courses.  
**M/W Evening Classes** begin on July 10 and include 2 FRIDAYS: July 21 and August 4 at the regularly scheduled hours.  
**T/Th Evening Classes** begin on July 11 and include 2 FRIDAYS: July 28 and August 11 at the regularly scheduled hours.

Reminder: This course listing combines the University of Massachusetts Lowell day school courses and the continuing studies courses. It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
ART HISTORY							
1251	58.494-021	Directed Studies	TBA	TBA	3	P: Permission of instructor	Liana Cheney
1252	58.496-021	Practicum in Art History	TBA	TBA	3	P: Permission of instructor	Liana Cheney
CHEMISTRY							
1283	84.112-021	General Chemistry II	T/Th	7:00-10:00 pm	3	P: 84.111 or permission of instructor; C: 84.114; SL	Nicole Krilla
1284	84.114-021	General Chemistry II Lab	T/Th	3:30-6:30 pm	1	P: 84.113 or permission of instructor; C: 84.112; SL	Athena Letsou
1285	84.122-021	Chemistry II	M/W	7:00-10:00 pm	3	P: 84.121 and 84.123. C: 84.124; SL	J. Barry Mahoney
1286	84.124-021	Chemistry II Lab	T/Th	7:00-10:00 pm	1 (3)	P: 84.123; C: 84.122; SL	Paul Damour
1287	84.222-021	Organic Chemistry II	M/T/Th	2:45-5:15 pm	3	P: 84.221. C: 84.230; SL	Gene Davis
1288	84.222-022	Organic Chemistry II	T/Th	7:00-10:00 pm	3	P: 84.221. C: 84.230; SL	Gene Davis
1452	84.230-021	Organic Chemistry Lab II A	T/Th	6:00-10:00 pm	1 (4)	P: 84.229; C: 84.222; SL	Judith Freeman
1453	84.230-022	Organic Chemistry Lab II A	M/W	6:00-10:00 pm	1 (4)	P: 84.229. C: 84.222; SL	Judith Freeman
CINEMA							
(See courses listed under Cultural Studies, Languages, and Sociology)							
CIVIL ENGINEERING							
1151	14.205-021	Dynamics (alternate 22.213)	M-Th	8:00-10:00 am	3	P: 14.203, 92.132	Faize Jamil
COMPUTER SCIENCE							
1327	91.113-021	Exploring the Internet	T/Th	6:00-9:00 pm	3	Non-CS Majors only	Michael Krolak
CRIMINAL JUSTICE							
2628	44.141-021	Police Process	M-Th	10:15 am-12:15 pm	3		Christopher Harris
For permission numbers and questions regarding the Undergraduate Criminal Justice Program, please email Kathy Roscoe at Kathleen_Roscoe@uml.edu.							
CERTIFICATE IN PARALEGAL STUDIES							
CERTIFICATE IN SECURITY MANAGEMENT AND HOMELAND SECURITY (See page 4 for required courses.)							
CULTURAL STUDIES							
(For additional courses, see Art History and Languages.)							
2629	50.375-021	Gender and Sexuality in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau
ECONOMICS							
1232	49.201-021	Economics I (Microeconomics)	M-Th	8:00-10:00 am	3	P: 90.111; BS	Ronald Olive
1233	49.201-022	Economics I (Microeconomics)	T/Th	6:00-9:00 pm	3	P: 90.111; BS	Ronald Olive
1236	49.202-021	Economics II (Macroeconomics)	M/W	6:00-9:00 pm	3	P: 90.111; BS	Michael Carter
1239	49.211-021	Statistics I	M/W	6:00-9:00 pm	3	P: 92.122 or equivalent	Harjeet Khosla
ELECTRICAL AND COMPUTER ENGINEERING							
1152	16.202-021	Circuit Theory II	T/Th	9:15 am-12:15 pm	3	P: 16.201; C: 16.208 or instructor permission	Tenneti Rao
2630	16.421-021	Real Time D.S.P.	T/Th	6:00-9:00 pm	3	P: 16.362	Mufeed Mah'd
1450	16.461-021	Electromagnetics Theory II	M/W	2:00-5:00 pm	3	P: 16.360, 16.364	Dikshitulu Kalluri
2685	16.491-021	Industrial Experience I	TBA	TBA	3	P: Permission of instructor	Ziyad Salameh
ENGLISH							
2632	42.100-021	College Writing A	M/W	7:00-10:00 pm	3		Janet LaFleur
2495	42.101-021	College Writing I	M/W	7:00-10:00 pm	3		Department Faculty
1188	42.102-021*	College Writing II	M-Th	10:15 am-12:15 pm	3	P: 42.101	Mary Hojnacki
1189	42.102-022*	College Writing II	T/Th	7:00-10:00 pm	3	P: 42.101	Kim Komperda
1191	42.212-021	The Short Story	M/W	7:00-10:00 pm	3	P: 42.102; LT	Madeline Sherlock
1193	42.217-021	The Horror Story	T/Th	7:00-10:00 pm	3	P: 42.102; LT	Carl Mason
1195	42.224-021**	Business Writing	M/W	6:00-9:00 pm	3	P: 42.102	Peter Payack
1198	42.295-021	History of American Literature II	M/W	7:00-10:00 pm	3	P: 42.102; LT	Henry Venuti
*Students will not receive credit for both 42.102 and 42.104.							
**Students will not receive credit for both 42.224 and 42.226.							
CERTIFICATE IN TECHNICAL WRITING (See page 3 for required courses.)							
HEALTH							
1170	30.305-021	Exercise Physiology Lecture (Blended course: On-campus/Online classes; see the Continuing Studies website for details)	M-F	8:00-10:00 am	4	P: Anatomy and Physiology, Chemistry; not open to UMass Lowell Exercise Physiology majors; SL	Sean Collins
2633	30.307-021	Exercise Physiology Lab (Blended course: On-campus/Online classes; see the Continuing Studies website for details)	M/W/Th	10:15 am-1:15 pm	1 (3)		Sean Collins
1175	35.102-021	Human Anatomy and Physiology II	T/Th	6:15-9:15 pm	3	P: 35.101, 35.103 (or equiv.); C: 35.104; SL	Paul Fierimonte
1176	35.104-021	Human Anatomy & Physiology II Lab	T/W/Th	2:00-5:00 pm	1 (3)	P: 35.101, 35.103; C: 35.102; SL	Edward Kostek
2634	35.211-021	Basic Clinical Microbiology and Pathology	M-Th	5:00-7:00 pm	3	P: Anatomy and Physiology	Bryan Cowell
2635	35.213-021	Basic Clinical Microbiology and Pathology Lab	M-Th	7:00-9:00 pm	1 (3)	C: 35.211	Bryan Cowell
CERTIFICATE IN NUTRITION							
HISTORY							
(See also Art History)							
1199	43.106-021	The Modern World	T/Th	6:00-9:00 pm	3	HS	Robert Lemire, Jr.
1201	43.112-021	U.S. History Since 1877	M/W	6:00-9:00 pm	3	HS	Diane Lewis
INFORMATION TECHNOLOGY							
(Including Multimedia and Graphics)							
2636	90.160-021	Introduction to Information Systems	T/Th	6:00-9:00 pm	3		Christopher Gambon
2637	90.202-021	Microsoft® Office	T/Th	6:00-9:00 pm	3		Terry Bass
1294	90.211-021	Intro to Programming with C-Part I	M/W	7:00-10:00 pm	3	No previous prog. experience required	James Brzowski
1296	90.212-021	Intro to Programming with C-Part II	T/Th	7:00-10:00 pm	3	P: 90.211	James Brzowski
1298	90.220-021	Visual Basic®	T/Th	7:00-10:00 pm	3		Leo Javits



UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
2638	90.267-021	C Programming	T/Th	6:00-9:00 pm	3	P: Previous programming experience	Department Faculty
1305	90.268-021	C++ Programming	M/W	7:00-10:00 pm	3	P: 90.267 or 90.212	Joseph Russell
2529	90.291-021	Introduction to DHTML	M/W	6:30-9:30 pm	3		David Sciuto
2639	90.297-021	Introduction to Java	T/Th	6:00-9:00 pm	3	P: Previous prog. experience required	Peter Weston
2640	90.301-021	Java™ Programming/Windows	M/W	7:00-10:00 pm	3	P: 90.297 or 90.268	Spencer Marks
2641	90.303-021	Advanced Java™ Programming	M/W	6:00-9:00 pm	3	P: 90.301	Peter Weston
2642	90.312-021	Shell Programming	M/W	7:00-10:00 pm	3	P: 90.311, and 90.267 or 90.212	Michael Richards
1321	90.461-021	LAN/WAN Technologies	M/W	7:00-10:00 pm	3	P: 90.267 or previous prog. experience	Department Faculty
2581	90.474-022	Relational Database Concepts	T/Th	6:00-9:00 pm	3	P: 90.267	Umesh Bhargava
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
CERTIFICATE IN DATABASE MANAGEMENT TECHNOLOGIES (See page 4 for required courses.)							
CERTIFICATE IN DATA/TELECOMMUNICATIONS (See page 4 for required courses.)							
CERTIFICATE IN FUNDAMENTALS OF INFORMATION TECHNOLOGY (See page 4 for required courses.)							
CERTIFICATE IN MULTIMEDIA APPLICATIONS (See page 3 for required courses.)							
CERTIFICATE IN UNIX (See page 4 for required courses.)							
CERTIFICATE IN WEBSITE DESIGN AND DEVELOPMENT (See page 3 for required courses.)							
LANGUAGES							
1240	50.212-021	Intermediate Conversational French II	M/W	7:00-10:00 pm	3	P: 50.211 or equivalent	Joseph Garreau
2629	50.375-021	Gender and Sexuality in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau
1242	52.374-021	Classics of Italian Cinema	M-Th	10:15 am-12:15 pm	3	VCA; conducted in English	Mario Aste
1243	52.380-021	Italian Cinema: Directors and Themes	M-Th	8:00-10:00 am	3	VCA; conducted in English	Mario Aste
1244	54.102-021	Beginning Spanish II	M-Th	8:00-10:00 am	3	P: 54.101 or equivalent	William Reyes
1245	54.102-022	Beginning Spanish II	M/W	7:00-10:00 pm	3	P: 54.101 or equivalent	Kimberly Vitchkoski
1246	54.212-021	Intermediate Conversational Spanish II	M-Th	10:15 am-12:15 pm	3	P: 54.211 or equivalent	William Reyes
1247	54.212-022	Intermediate Conversational Spanish II	T/Th	7:00-10:00 pm	3	P: 54.211 or equivalent	Ana Ruiz Ramirez
CERTIFICATE IN SPANISH							
LEGAL STUDIES							
(See also Paralegal Studies)							
1180	41.365-021	The Legal Environment of Business	M/W	7:00-10:00 pm	3	HV	Paul King
1181	41.370-021	Real Estate Law	M/W	7:00-10:00 pm	3		J. Alan Roberts
1183	41.376-021	Family Law	T/Th	7:00-10:00 pm	3		Ellen Curran
2691	41.381-021	Women and the Law	M/W	7:00-10:00 pm	3		Nancy Dick
2643	41.387-021	Legal Research Methods	T/Th	7:00-10:00 pm	3		Nancy Dick
CERTIFICATE IN PARALEGAL STUDIES							
MATHEMATICS							
1289	90.111-021*	Fundamentals of Algebra	M/W	7:00-10:00 pm	3		Eugene Welch, Jr.
2645	92.120-021**	Precalculus Mathematics (Previously 92.121)	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; Placement Exam given the first week of class; MA	Alan Kaplan
2646	92.120-022**	Precalculus Mathematics (Previously 92.121)	M/W	6:30-9:30 pm	3	P: 90.111 or equivalent; Placement Exam given the first week of class; MA	Candice Weston
1333	92.122-021	Management Calculus	M-Th	10:15 am-12:15 pm	3	P: 90.119 or 92.121 or equivalent; not for science or engineering majors; MA	Patricia Gifford
1334	92.123-021	Precalculus Mathematics II	T/Th	7:00-10:00 pm	3		Terence Watterson
1335	92.125-021	Calculus A	T/Th	7:00-10:00 pm	3	P: 92.123; MA	Alan Kaplan
1336	92.126-021	Calculus B	M/W	7:00-10:00 pm	3	P: 92.125; MA	Theresa Schille
1341	92.183-021	Introduction to Statistics	M-Th	8:00-10:00 am	3	P: 90.111 or equivalent; MA	Alexander Olsen
1342	92.183-022	Introduction to Statistics	M/W	7:00-10:00 pm	3	P: 90.111 or equivalent; MA	Alexander Olsen
1345	92.231-021	Calculus III	M-F	10:15 am-12:15 pm	4	P: 92.132; MA	Rida Mirie
2647	92.234-021	Differential Equations	T/Th	6:00-9:00 pm	3	P: 92.225 or 92.132	Rida Mirie
1347	92.321-021	Discrete Structures I	M/W	6:00-9:00 pm	3	P: 90.112 or 92.121	Anthony Penta
1350	92.427-021	Geometry	T/Th	8:30-11:30 am	3	P: 92.221 or 92.321	Marvin Stick
*Fundamentals of Algebra (90.111) is a preparatory course and cannot be credited toward a degree program at the University of Massachusetts Lowell.							
**Credit is given for only one of the three following courses: 90.119, 92.120 or 92.121. For students in the Information Technology Program, 92.120 or 92.121 can be substituted for the combination of 90.112 and 90.119.							
University of Massachusetts Lowell day students must have approval from their Department Chairperson before taking courses with a 90 prefix. Many 500-level courses are well within the grasp of upper level undergraduates and may be used as electives. Contact the Graduate School for course listings and admissions procedures.							
MECHANICAL ENGINEERING							
1165	22.213-021	Dynamics (alternate 14.205)	M-Th	8:00-10:00 am	3	P: 22.211, 92.231	Faize Jamil
2648	22.381-021	Fluid Mechanics	M-Th	10:15 am-12:15 pm	3		Majid Charmchi
MUSIC							
2695	71.110-021	Basic Music Theory	M-Th	8:00-10:00 am	3	For Non-Music Majors only; AE	Deborah MacKinnon
1273	71.202-021	Music Theory 4	M-Th	10:15 am-12:15 pm	3	P: 71.201	Department Faculty
1274	71.204-021	Aural Skills 4	M-Th	8:00-9:20 am	1 (2)	P: 71.203	Department Faculty
PARALEGAL STUDIES							
(See also Legal Studies)							
1181	41.370-021	Real Estate Law	M/W	7:00-10:00 pm	3		J. Alan Roberts
2643	41.387-021	Legal Research Methods	T/Th	7:00-10:00 pm	3		Nancy Dick
CERTIFICATE IN PARALEGAL STUDIES							
PHILOSOPHY							
1215	45.201-021	Introduction to Philosophy	T/Th	7:00-10:00 pm	3	VC, AHE	Michael Koran
1217	45.203-021	Introduction to Ethics	M/W	6:00-9:00 pm	3	VC, AHDE	Whitley Kaufman
CERTIFICATE IN CONTEMPORARY COMMUNICATIONS (See page 4 for required courses.)							
PHYSICS							
1359	95.104-021	General Physics II	M-Th	8:00-10:00 am	3	P: 95.103; C: 96.104; SL	Edward Salesky
1360	95.141-021	Physics I	M-F	10:15 am-12:15 pm	3 (4)	C: 92.131; 96.141; SL	Edward Salesky
1361	95.144-021	Physics II	M-F	10:15 am-12:15 pm	3 (4)	P: 95.141; C: 92.132, 96.144; SL	Roger McLeod
1362	96.104-021	General Physics II Lab (2 days per week)	T/Th	1:00-4:00 pm	1 (2)	P: 96.103; C: 95.104 or 95.202; SL	Department Faculty
1363	96.141-021	Physics I Lab	M/W	1:00-4:00 pm	1 (2)	C: 95.141; SL	Department Faculty
1364	96.144-021	Physics II Lab (2 days per week)	T/Th	1:00-4:00 pm	1 (2)	P: 96.141; C: 95.144; SL	David Pullen
1365	99.101-021	Radiation and Life	M/W	6:00-9:00 pm	3	C: 99.102; SL	Thomas Regan
1366	99.102-021	Radiation and Life Lab	M/W	3:30-5:30 pm	1 (2)	P: or C: 99.101; SL	Thomas Regan
PLASTICS							
1167	27.452-021	Selected Topics II	M/W	7:00-10:00 pm	3		Stephen Driscoll
1168	27.454-021	Selected Topics IV	T/Th	7:00-10:00 pm	3		Stephen Driscoll
CERTIFICATE IN PLASTICS ENGINEERING TECHNOLOGY (See page 4 for required courses.)							



UNDERGRADUATE CREDIT COURSES

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
POLITICAL SCIENCE							
1218	46.101-021	Introduction to American Politics	M-Th	10:15 am-12:15 pm	3	BS/SS	George Anthes
PSYCHOLOGY							
1220	47.101-021	General Psychology	M/W	6:00-9:00 pm	3	BS/SS	Marc Wilson
2649	47.260-021	Human Development I	T/Th	6:00-9:00 pm	3	P: or C: 47.101; SS	Patricia Trela
1225	47.335-021	Psychology and Women	M-Th	10:15 am-12:15 pm	3	P: 47.101; BSV/SSD	Andrew Hostetler
SOCIOLOGY							
1229	48.101-021	Introduction to Sociology	M-Th	8:00-10:00 am	3	BS	Levon Chorbajian
2650	48.111-021	Sociology Through Literature	T/Th	7:00-10:00 pm	3		William Lekas
2693	48.216-021 NEW!	Sociology of War and Peace	M-Th	10:15 am-12:15 pm	3	P: 48.101	Richard Hudak
TBA	48.285-021 NEW!	Film: From Gangster to Noir	T/Th	7:00-10:00 pm	3	P: 48.101	Jonathan Berberian
1230	48.340-021	Sociology of Sports	M/W	7:00-10:00 pm	3	P: 48.101	Levon Chorbajian
WOMEN'S STUDIES							
1225	47.335-021	Psychology and Women	M-Th	10:15 am-12:15 pm	3	P: 47.101; BSV/SSD	Andrew Hostetler
2629	50.375-021	Gender and Sexuality in French Cinema	T/Th	7:00-10:00 pm	3	AHD; conducted in English	Joseph Garreau

GRADUATE CREDIT COURSES

Graduate Courses  
Summer Session I

Except as noted: Day classes begin on May 22.  
M/W Evening Classes begin on May 22 and include 3 FRIDAYS: June 2, June 16 and June 23 at the regularly scheduled hours.  
T/Th Evening Classes begin on May 23 and include 2 FRIDAYS: June 9 and June 30 at the regularly scheduled hours.

Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate School at 800-656-GRAD or [www.uml.edu/grad](http://www.uml.edu/grad). In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
BUSINESS ADMINISTRATION							
1255	60.501-031*	Financial Accounting (5/22-7/14/06)	➤ Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students	Sherre Strickland
1085	61.601-011*	Corporate Finance	M/W	6:00-9:00 pm	3	P: MBA matriculated students and completion of of MBA Foundation courses	Devendra Prasad
1258	61.691-061*	International Finance (5/22-7/14/06)	➤ Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses; requires Logarithm calculator	Yash Puri
1086	61.735-011*	Portfolio Investment and Security Analysis	T/Th	6:00-9:00 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Devendra Prasad
1260	62.501-031*	Marketing Fundamentals (5/22-7/14/06)	➤ Online Course		2	Open to MBA, Business Certificate or Doctor of Engineering students	Duncan LaBay
1261	62.601-061*	Analysis of Customers and Markets (6/26-8/18/06)	➤ Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	Eunsang Yoon
1264	63.501-031*	Operations Fundamentals (5/22-7/14/06)	➤ Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students	M. Riaz Khan
2707	63.688-061 NEW!	Current Topics in Management Information Systems: Knowledge Management (6/26-8/18/06)	➤ Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	Edward Chen
1442	63.689-061*	Current Topics in Operations Management: Managerial Quality Control (5/22-7/14/06)	➤ Online Course		3	P: 64.601, MBA matriculated students and completion of MBA Foundations courses	David Lewis
1266	64.601-061*	Operations Management (5/22-7/14/06)	➤ Online Course		3	P: MBA matriculated students and completion of MBA Foundation courses	David Lewis
1268	66.501-031*	Organizational Behavior (5/22-7/14/06)	➤ Online Course		2	P: Open to MBA, Business Certificate or Doctor of Engineering students	Stuart Freedman
1089	66.688-011*	Current Topics in Management: Mid Management Skills	T/Th	6:00-9:00 pm	3	P: MBA matriculated students and completion of MBA Foundation courses	Timm Kainen
1270	66.691-021*	Strategy (5/22-7/28/06)	Wed	6:00-9:00 pm	3	4 additional Monday classes: June 12, June 26, July 10, July 24; P: MBA matriculated students and completion of MBA Foundation courses	Ashwin Mehta

\*Courses are also open to non-UML grad students who meet course prerequisites. If not currently registered in a program, please contact the MBA Coordinator, Kathleen Rourke, at 978-934-2848 for permission to take courses.

COMPUTER SCIENCE							
1329	91.516-021	Operating Systems II (5/22-8/25/06)	Thurs	6:00-9:00 pm	3	Requires permission of Graduate Computer Science Coordinator	Department Faculty
CRIMINAL JUSTICE							
1046	44.501-041	Criminal Justice Scholarship (Held at Veterans Administration Medical Center, Bedford, MA)	M/W	6:00-9:00 pm	3		Ronald Corbett
1210	44.503-061	Administration of Criminal Justice (5/22-7/28/06)	➤ Online Course		3		Larry Siegel
1211	44.521-061	Criminological Theory (5/22-7/28/06)	➤ Online Course		3		Larry Siegel
1214	44.545-061	Criminal Mind and Behavior (5/22-7/28/06)	➤ Online Course		3		Alan Lincoln
2473	44.549-061	Terrorism/Counter-Terrorism (5/22-7/28/06)	➤ Online Course		3	Requires MS Word	Allan Roscoe
2474	44.554-061 NEW!	Issues in National and International Security (5/22-7/28/06)	➤ Online Course		3		Matthew Feely
2475	44.580-061	Quantitative Research (5/22-7/28/06)	➤ Online Course		3		Donald Faggiani
2476	44.590-061	Research Methods (5/22-7/28/06)	➤ Online Course		3		Donald Faggiani
1423	44.680-041	Special Topics: Forensic Pathology (Held at Veterans Administration Medical Center, Bedford, MA)	T/Th	6:00-9:00 pm	3		Dennis Cullinane
2477	44.680-061 NEW!	Selected Topics: Mental Health and Crime (5/22-7/28/06)	➤ Online Course		3		Andrew Harris

For permission numbers and questions regarding the Criminal Justice Graduate Program, please email Maureen Giacobbe at [Maureen\\_Giacobbe@uml.edu](mailto:Maureen_Giacobbe@uml.edu).



# GRADUATE COURSE LISTINGS

## Graduate Courses Summer Session I *Continued*

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>EDUCATION</b>							
<b>Note: These summer Education courses can be found under term "1550" or "2006 Trimester" in <a href="http://isis.uml.edu">http://isis.uml.edu</a></b>							
1027	01.625-061	Organization of Schools and School Systems (5/22-7/28/06)	> Online Course		3	**EA	William Phelan
1028	01.630-061	Diversity Issues for School Leaders (5/22-7/28/06)	> Online Course		3	**CI, EA, RL	Maura Ammendolia
1029	04.635-061	<b>NEW!</b> Dynamics of Curricular Change (5/22-7/28/06)	> Online Course		3	**CI, EA	James Nehring
1030	04.643-061	The Skillful Teacher (5/22-7/28/06)	> Online Course		3	**CI, CI(sci)	Robert Gower
1039	05.642-061	Principles of Supervision (5/22-7/28/06)	> Online Course		3	**EA	Robert Gower
1040	05.643-061	The Principalship (5/22-7/28/06)	> Online Course		3	**EA	Charles Christensen
1041	06.511-061	Reading in the Content Area (5/22-7/28/06)	> Online Course		3	**RL	Jay Simmons
1042	06.522-061	Young Adult Literature (5/22-7/28/06)	> Online Course		3	**RL	Denise Marchionda
1059	06.531-061	Organization and Supervision of Reading and Language (5/22-7/28/06)	> Online Course		3	**RL; Course should be taken only as the last course before the 06.548 Practicum.	William Harp
1043	07.642-061	Program Evaluation (5/22-7/28/06)	> Online Course		3	**EA	Brenda Jochums-Slez
1044	81.547-061	Evolution in Context for Teachers (5/22-7/28/06)	> Online Course		3	**CI(sci); requires access to a digital camera	David Lustick
1045	95.501-061	Energy, Force and Motion (5/22-7/28/06)	> Online Course		3	**CI(sci); requires access to a digital camera	Arthur Mittler
1031	05.590-061*	Practicum I: Supervisors/Directors K-12 (5/22-7/28/06)	> Online Course		1	P: Permission of instructor; **EA	Charles Christensen
1032	05.591-061*	Practicum II: Supervisors/Directors (5/22-7/28/06)	> Online Course		2	P: Permission of instructor; **EA	Charles Christensen
1033	05.592-061*	Practicum I: Elementary School Principals P-6 (5/22-7/28/06)	> Online Course		1	P: Permission of instructor; **EA	Charles Christensen
1034	05.593-061*	Practicum II: Elementary School Principals P-6 (5/22-7/28/06)	> Online Course		2	P: Permission of instructor; **EA	Charles Christensen
1035	05.594-061*	Practicum I: Middle School Principals 5-8 (5/22-7/28/06)	> Online Course		1	P: Permission of instructor; **EA	Charles Christensen
1036	05.595-061*	Practicum II: Middle School Principals 5-8 (5/22-7/28/06)	> Online Course		2	P: Permission of instructor; **EA	Charles Christensen
1037	05.596-061*	Practicum I: High School Principals 9-12 (5/22-7/28/06)	> Online Course		1	P: Permission of instructor; **EA	Charles Christensen
1038	05.597-061*	Practicum II: High School Principals 9-12 (5/22-7/28/06)	> Online Course		2	P: Permission of instructor; **EA	Charles Christensen
*Instructor's permission is required for this two-semester course, which may be taken after the candidate has completed 21 or more credits, and concurrent with the two remaining courses.							
**The Graduate School of Education offers Online Courses leading to three Masters of Education degrees: Educational Administration (EA), Reading and Language (RL), Curriculum and Instruction (CI); and Curriculum and Instruction: Science Concentration (CI)(sci). The letters in the prerequisites column refer to which programs each course is aligned.							
<b>ELECTRICAL AND COMPUTER ENGINEERING</b>							
1015	16.528-011	Alternate Energy Sources	M/W	6:00-9:00 pm	3	P: Instructor permission	Ziyad Salameh
1016	16.529-011	Electric Vehicle Technology	T/Th	6:00-9:00 pm	3	P: Instructor permission	Ziyad Salameh
2631	16.560-011	Biomedical Instrumentation	T/Th	6:00-9:00 pm	3		Mufeed Mah'd
1017	16.577-011	Verification of Very Large Digital Designs	T/Th	6:00-9:00 pm	3	P: 16.574	James Moran
1018	16.593-011	Industrial Experience	TBA	TBA	0		Ziyad Salameh
1163	16.666-011	Storage Area Networks	M/W	6:00-9:00 pm	3	P: 16.583	Oliver Ibe
2479	16.710-011	Selected Topics in EE Radio Wave Propagation	M/W	6:00-9:00 pm	3	P: 16.461 or instructor permission	Gary Sales
<b>HEALTH</b>							
1171	34.650-021	Clinical Education Experience I (5/29-7/21/06)	M-F	8:00 am-4:00 pm	3 (4)	P: First-year Physical Therapy Graduate students only	Keith Hallbourg
1172	34.652-021	Clinical Education Experience II (6/26-8/18/06)	M-F	8:00 am-4:00 pm	3 (4)	P: Clinical Education Experience I, second-year Physical Therapy graduate students only	Keith Hallbourg
1179	36.613-031	Infectious Disease (5/22-8/18/06)	> Online Course		3	P: One semester of General Microbiology	S. Fessia- Richardson
<b>MATHEMATICS</b>							
1352	92.500-061	Discrete Structures (5/22-7/28/06)	> Online Course		3		Alan Doerr
2653	92.510-031	Computers and Calculators in the Classroom (5/22-8/18/06)	> Online Course		3	P: Requires Mathematica 4.0 or higher	Kenneth Levasseur
2651	92.550-011	Mathematical Modeling	T/Th	6:00-9:00 pm	3		James Graham-Eagle
2480	92.578-021	Statistical Inference and Data Mining (5/22-8/18/06)	Fri	4:00-7:00 pm	3	P: 92.386 or equivalent	Lee Jones
<b>MECHANICAL ENGINEERING</b>							
1166	22.512-031	Applied Finite Elements (5/22-8/18/06)	> Online Course		3	P: Requires instructor permission; access to a PC; \$150 course fee for software; optional on-campus course orientation: May 22, 6:00 pm	James Sherwood
2686	22.597-011	<b>NEW!</b> Processing of Composites	M/W	6:00-9:00 pm	3		Antonio Miravete
2687	22.615-011	<b>NEW!</b> FEA of Composites	T/Th	6:00-9:00 pm	3		Antonio Miravete
<b>MUSIC</b>							
1275	73.510-021	Foundations of Music Education (5/22-8/18/06)	Tues	5:00-8:00 pm	3		Donna Nagle
<b>For additional Summer Music Graduate Education courses, please see Summer Session II.</b>							
<b>PHYSICAL THERAPY TRANSITIONAL DOCTORATE</b>							
1174	34.702-031	Clinical Reasoning in Physical Therapy (5/22-8/18/06)	> Online Course		3	P: Admittance into tDPT; requires MS Word	Karla Bell-Elkins
2481	34.704-031	Healthcare Issues: Impact on Clinical Practice (5/22-8/18/06)	> Online Course		3	P: Admittance into tDPT; requires MS Word	Deirdra Murphy
<b>PSYCHOLOGY</b>							
1059	47.533-011	Mental Health Problems in the Community	M/W	6:00-9:00 pm	3	P: Open to senior students with instructor permission	Peter Hantzis
2482	47.561-031	Introduction to Intervention in Behavioral Autism (5/22-8/18/06)	> Online Course		3		Alicia Perry
2483	47.562-031	Teaching and Positive Behavioral Support in Autism (5/22-8/18/06)	> Online Course		3	P: 47.561	Jennifer Crockett
2484	47.565-031	<b>NEW!</b> Measurement and Experimental Design in Behavioral Intervention (5/22-8/18/06)	> Online Course		3	P: 47.561	Department Faculty
2485	47.566-031	<b>NEW!</b> Functional Analysis and Treatment of Challenging Behavior (5/22-8/18/06)	> Online Course		3	P: 47.562	Department Faculty
<b>REGIONAL ECONOMIC &amp; SOCIAL DEVELOPMENT</b>							
2486	57.535-011	Community-Based Planning	M/W	6:00-9:00 pm	3		Ezra Glen



# Graduate Courses Summer Session II

Except as noted: Day classes begin on July 10.

M/W Evening Classes begin on July 10 and include 2 FRIDAYS: July 21 and August 4 at the regularly scheduled hours.

T/Th Evening Classes begin on July 11 and include 2 FRIDAYS: July 28 and August 11 at the regularly scheduled hours.

Reminder: It is important to check course numbers and prerequisites to ensure enrollment in the correct class.

Students interested in applying into Graduate degree or certificate programs should contact the Graduate School at 800-656-GRAD or [www.uml.edu/grad](http://www.uml.edu/grad). In some cases, a student may take only 6 credits prior to matriculating into a formal graduate degree program. Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Generally, students must formally apply to graduate certificate programs before enrolling in graduate courses intended for specific certificate programs.

ISIS Class No.	Course No.	Title	Days	Time	Cr (Con)	P: Prerequisite C: Corequisite/Comments	Instructor
<b>ELECTRICAL AND COMPUTER ENGINEERING</b>							
1160	16.510-021	Digital Signal Processing	T/Th	2:30-5:30 pm	3	P: 16.362, 16.363 preferred	Mufeed Mah'd
2652	16.521-021	Real Time D.S.P.	T/Th	6:00-9:00 pm	3	P: 16.362	Mufeed Mah'd
1161	16.593-021	Industrial Experience	TBA	TBA	0		Ziyad Salameh
<b>MATHEMATICS</b>							
1353	92.527-021	Geometry	T/Th	8:30-11:30 am	3	Course is generally applicable only to the Teacher Option	Marvin Stick
<b>MUSIC</b>							
2468	73.576-021	Finale Workshop (8/2-8/4/06)	W/Th/F	9:00 am-4:00 pm	2		Dan Lutz
2469	73.577-021	Instrumental Music Workshop (8/7-8/9/06)	M/T/W	9:00 am-4:00 pm	2		Debra-Nicole Huber
1276	73.579-021	World Percussion Ensemble (8/7-8/11/06)	M-F	9:00 am-4:00 pm	3		Dan Foote
2470	73.583-021	Introduction to Technology Applications for the Music Classroom (7/24-7/28/06)	M-F	9:00 am-4:00 pm	3		Wayne Spletstoeser
2471	73.578-021	Music as a Way of Knowing (8/7-8/9/06)	M/T/W	9:00 am-4:00 pm	2		William Nick Page

## Summer I 2006 Courses Held at Bedford, MA, V.A. Medical Conference Center

The following courses will be held at the V.A. Medical Conference Center in Bedford, MA — **Satellite Center**

### Undergraduate Credit

**90.267-041 C Programming**  
Meets Tuesdays and Thursdays 6-9pm

### Graduate Credit

**44.501-041 Criminal Justice Scholarship**  
Meets Mondays and Wednesdays 6-9pm

**44.680-041 Special Topics: Forensic Pathology**  
Meets Tuesdays and Thursdays 6-9pm

### Non-Credit

To register for the following noncredit courses, call (978) 934-2405.

**Risk Management**  
Meets Wednesdays 6-9:30 pm  
May 31, June 7, 21, 28; Tuition: \$595.00

**Effective Business Writing**  
Meets Thursdays 6:30-9 pm  
May 4, 11, 18; Tuition: \$295.00

**Basic Electronics**  
Meets Mondays and Wednesdays 6-9 pm  
May 15, 17, 22, 24, 31, June 5, 7; Tuition: \$595.00

To register call (978) 934-2405. For more information, contact:  
Jacqueline Hawk, 978-934-2141, [Jacqueline\\_Hawk@uml.edu](mailto:Jacqueline_Hawk@uml.edu)



## GENERAL INFORMATION

## General Information

### Registrar's Office Hours

Dugan Hall 104, UML South  
Monday-Thursday: 8:00 am-8:00 pm  
Friday: 8:00 am-5:00 pm

### Continuing Studies and Corporate Education Office Hours

Paley Room, Southwick 202, UML North  
Monday-Thursday: 8:30 am-8:00 pm  
Friday: 8:30 am-5:00 pm

### Holiday Hours and Special Hours

May 29: Memorial Day (University closed)  
July 4: Independence Day (University Closed)

The week of July 3 through July 7, CSCE and the Registrar's Office will be open from 8:30 am-5:00 pm (closed July 4).

The week of August 21 through August 25, 2006 CSCE will be open from 8:30 am-6:00 pm, Monday-Thursday and 8:30 am-5:00 pm on Friday. The Registrar's Office will be open from 8:00 am-6:00 pm, Monday-Thursday and 8:00 am-5:00 pm on Friday.

### Commencement: June 4, 2006

### Phone Directory

Bookstore — UML North .....(978) 934-2623  
Bookstore — UML South .....(978) 934-6908  
Continuing Studies  
Main Number .....(978) 934-2480  
Fax Number .....(978) 934-4076  
Faculty and Student Support Center .....(978) 934-2474  
Registrar's Office.....(978) 934-2550  
Graduate School of Education .....(978) 934-4600  
Library — UML North  
(Alumni/Lydon) .....(978) 934-3205  
Library — UML South  
(O'Leary).....(978) 934-4550  
UMass Lowell Main Number.....(978) 934-4000  
UMass Lowell Directions.....(978) 934-5800  
or [www.uml.edu/maps](http://www.uml.edu/maps)  
Weather Cancellations .....(978) 934-2121  
Billing Information .....(978) 934-3570

See our Website at <http://continuinged.uml.edu>

You can also visit the Graduate School Website at [www.uml.edu/grad/off\\_campus](http://www.uml.edu/grad/off_campus)

## Registration Information

See Academic Calendar on page 18 for appropriate registration deadlines.

Undergraduate, Graduate and Continuing Studies students can register for classes in a variety of formats in the ISIS Web-Based Self-Service System, or by mail, fax, and walk-in. Students are encouraged to use the ISIS Self-Service System whenever possible.

### New Student Information System

When using ISIS, the new Student Information System, Undergraduate, Graduate, and Continuing Studies students are able to perform the following transactions:

- search the course catalog and schedule of classes
- register for classes as well as add, drop and swap classes
- request official transcripts and designate the recipients of transcripts
- pay a bill
- accept and decline financial aid

Students also can access and print their:

- class schedules (called a Study List in self-service)
- grades
- unofficial transcripts
- advisor's name
- account summary (billing)
- financial aid information

For more information, check out the "Just for Students" section at: <http://intranet.uml.edu/it/training/isis.htm>  
If you have a problem accessing your account, please contact the help desk at (978) 934-4357.

**ISIS (Inter-Campus Student Information System) Web-Based Self-Service System.** Registration begins April 10, 2006. (This is the preferred method of registration for all returning students.) Returning students (i.e., students who have been enrolled in a course at any time during the last three semesters) can register and pay for courses online. Returning students will have a User ID generated for them. To look up your ID, go to <http://isis.uml.edu> and click User ID Lookup. Once you have obtained your User ID, follow these easy steps to register for classes.

1. From any PC with an internet connection, go to <http://isis.uml.edu>
2. Click Student Self-Service Login.
3. Enter your User ID and password into the appropriate fields and click Submit.
4. Click Academics.
5. Click Enroll in a Class.
6. Select the Term.
7. Click Add Classes.
8. Type the **Class Number** in the **Class Nbr** field. Please note, the class number is different from the course number.

## REGISTER EARLY

**Get a head start and register early!** Although we cannot guarantee an opening in any class, your chances for being enrolled in the course of your choice are better when you register early. Please note that seats in laboratory courses are limited.

9. You can search for the class number by clicking the magnifying glass. Enter the first two digits of the course number (found in the brochure), into the subject area. Then enter the following three numbers of the course number into the catalog number box and then hit search. Repeat Step 8 until all desired classes have been added.
10. Click the Submit button.

### New students should use the mail, fax, and walk-in options.

Once the registration has been processed by the Registrar's Office, a new student will receive a letter from the Information Technology Office with the student's UMS number (UMass System number) and directions on how to log into ISIS. The student should check <http://isis.uml.edu> and then click on the User ID lookup. After you have obtained your ID number, you can log into <http://isis.uml.edu> and view your schedule.

### Mail-In Registration: Registration begins April 10.

Fill out the registration form and return it postmarked no later than the scheduled deadline.

1. Mail to: University of Massachusetts Lowell  
Registrar's Office  
883 Broadway Street, Dugan 104  
Lowell, MA 01854-5104
2. For classroom location and other scheduling information, please visit the Inter-Campus Student Information System (ISIS).

### Fax-In Registration: Registration begins April 10.

Fill out the registration form and fax it to (978) 934-4076 no later than the scheduled deadline.

### PLEASE NOTE!

**Walk-In Registration is held at the Registrar's Office, 883 Broadway Street, Dugan Hall 104, UML South, Lowell, MA 01854-5104.**

Please refer to the Registrar's Office for walk-in registration hours. Students are encouraged to use ISIS, the Web-Based Self-Service System.

### Final Drop/Add Period

See the academic calendar for appropriate drop/add dates. Drop/Add can be processed through ISIS or through the Registrar's Office, Dugan Hall 104, 883 Broadway Street, Lowell.

### Withdrawal with "W" Notation

See the appropriate academic calendar for the last day to withdraw. Students withdrawing from any class can use ISIS or officially notify the Registrar's Office, UML South, Dugan Hall 104, 883 Broadway Street, Lowell in person, by fax (978) 934-4076 or by mail, postmarked no later than the scheduled deadline. **Verbal messages to faculty or staff do not constitute official notification.**



# REGISTRATION INFORMATION

### Wait Listing

You may now put yourself on a wait list through ISIS if the course you want is full. When you try to register for a closed course, the system will ask you if you want to be put on a wait list. The wait list function also allows you to list a course you would like to drop if you are allowed into the closed course.

The wait list function runs in the evening. If space becomes available in a course, the wait list function will add you into the class in the order of your request. Please note that you **will not be notified** if you are put into the closed course. **You must** check your schedule in ISIS to see if you are registered for the closed course.

If you no longer wish to register for a course you are wait listed for, you must remove yourself from the wait list through ISIS. If you do not remove yourself from the wait list, you run the risk of being registered for a course and will be responsible for the grade received as well as the tuition and fees incurred.

ISIS will not put students into courses that have a time conflict or in courses where prerequisites are enforced.

### Email

A significant number of communications concerning the new Student Information System will be delivered to students via email. Information about the availability of class schedules, grade reports and financial awards that can be accessed using ISIS, the Web-Based Self-Service, will be sent to students via email.

To address this change in practice, UMass Lowell has implemented a new, robust email system and assigned UML email addresses to all students, including those enrolled in continuing studies courses. In addition, a new policy has been approved that supports email as an official means of communication and assigns responsibility to students for maintaining their UML email accounts.

Effective immediately, students should be using their UML accounts with the @student.uml.edu suffix to ensure they receive timely communications from the University. Please see <http://email.uml.edu> and check the student email link. New students will receive a letter from the Information Technology Office with their new UML email address.

### Identification Card

Students matriculated in a degree or certificate programs in CSCE have been/or will be issued access cards.

### Student ID Number

Your student ID number is your ISIS/UMass System number. To obtain your number go to <http://isis.uml.edu> and click on the user ID look up.

### Institutional Disclosure

The University is required to disclose the availability of various types of information related to Federal programs and mandates under the Higher Education Acts. This information is located on the UML web at: <http://www.uml.edu/student-services/dean/disclosure.html>

### Students with Disabilities

A student with a disability who needs special arrangements should contact Noel Cartwright, Director, Counseling Center, at (978) 934-4331 early in the registration process. Special advising, registration assistance, preferential scheduling, and alternative examination procedures are available. Special parking is also available on a temporary basis.

### The University's Annual Campus Crime and Safety Report

Under the Regulations of the Safe and Drug-Free Schools and Communities Act and the Jeanne Clery Act (formerly the Campus Security Act), the University is required annually to distribute to all faculty, staff and students a copy of the Annual Crime Report and the University's Policies and Procedures related to alcohol, other drugs, and sexual assault. These regulations permit us to publish this report electronically, and the current report is available on the internet at <http://www.uml.edu/crimereport>.

### Bookstore Locations

UML North — Falmouth First Floor, (978) 934-2623  
UML South — UML South Dining Hall, (978) 934-6908

Please call the Bookstore to confirm the location of your textbook.

Students taking online courses can order books through MBS Direct at <http://direct.mbsbooks.com/umlonline.htm>.

## Financial Information

Tuition is priced on the listed credit hour unless the contact hour is different. Tuition is then based on the listed contact hour. See information on Financial Aid, TERI Loans, and Scholarships on our website at <http://continuing.uml.edu>.

### Tuition and Fee Information

	Per Credit/ Contact Hr.
Undergraduate Tuition	\$270.00
Undergraduate Audit	\$270.00
Undergraduate Off-Campus Courses/Audit*	\$270.00 to \$300.00
Undergraduate Online Courses	\$280.00
Undergraduate Online Courses Audit	\$280.00
Graduate Online Professional Courses and Audit	\$440.00

Graduate On-Campus and Off-Campus Courses and Audit*	\$440.00
Registration Fee per Term (non-refundable)	\$30.00
Late Fee for Non Payment	\$50.00
Application for Undergraduate Admission Fee	\$20.00

**\*Note:** Some tuitions may vary depending on customization and customer and program requirements.

Students who have checks returned due to insufficient funds will be charged a \$30.00 insufficient funds fee.

### Overdue Accounts

Students will be permitted to attend class and to utilize facilities only after they have cleared all their financial obligations to the University. In addition, student transcripts and diplomas will not be released until all debts have been paid. Should it be necessary to utilize the services of a collection agency or attorney for an overdue student account, the student will be liable for any and all legal fees, commissions and associated service charges.

### Directed Studies

Directed Studies, Practicums, Internships, and Applied Music Lessons are considered Special Programs and, as such, tuition remission, waivers, and certificates of eligibility cannot be accepted.

### NOTE: Veterans' Information

Veterans must be matriculated in an undergraduate degree program and have all appropriate paperwork on file in the Registrar's Office, UML South, Dugan Hall 104, 883 Broadway Street, Lowell, including a DD214, and Admission Application form, in order to receive VA benefits. Tuition

waivers are available to veterans who are legal residents of Massachusetts for more than 12 consecutive months, and Proof of Residency must be updated annually. **These waivers for legal Massachusetts residents are not retroactive and do not cover registration and other fees.** Veterans requesting benefits must check the appropriate line on the registration form. Veterans should use the mail-in or walk-in options when registering and should provide all necessary documentation. For additional information, please see our website at <http://continuing.uml.edu> or call Linda Morabito at (978) 934-2461.

Veterans' waivers are available for on-campus courses provided there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. Due to the high cost of online and off-campus courses, there are no waivers available for these courses. There are no waivers for Directed Studies, Practicums, and Internships. Merit and Need-Based Assistance Grants for online courses may be available to veterans who are presently enrolled in degree and certificate programs and who are making satisfactory academic progress towards their degrees or certificates.

### International Students

International students registering for classes or enrolling in programs must provide proof of Visa status. Students with F-1 or J-1 Visa status must provide a copy of their I-20 or DS-2019 form. These students will be allowed to count, per semester, only one distance learning (online) course, or 3 credits, toward the full-time undergraduate course load (12 hours) or the full-time graduate course load (9 hours). The ultimate responsibility to know and follow the USCIS

## Academic Calendar

Summer 2006



Continuing Studies offers students a variety of scheduling options to meet their needs.

- Online Classes meet from May 22 through August 18.
- Accelerated online classes meet from May 22 through July 28.
- A number of courses meet one day a week spanning May 22 through August 18.

### May 22–June 30 Summer Session I

#### Face-to-Face Classes

Day classes begin on Monday, May 22.

M/W Evening classes begin on Monday, May 22 and include 3 FRIDAYS: June 2 and June 16, and June 23 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, May 23 and include 2 FRIDAYS: June 9 and June 30 at the regularly scheduled hours.

#### Final Examinations

Day Classes: June 28 for 3-credit courses,  
June 29 for 4-credit courses  
M/W Evening Classes: Wednesday, June 28  
T/Th Evening Classes: Thursday, June 29

### July 10–August 18 Summer Session II

#### Face-to-Face Classes

Day Classes begin on Monday, July 10.

M/W Evening classes begin on Monday, July 10 and include 2 FRIDAYS: July 21 and August 4 at the regularly scheduled hours.

T/Th Evening classes begin on Tuesday, July 11 and include 2 FRIDAYS: July 28 and August 11 at the regularly scheduled hours.

#### Final Examinations

Day Classes: August 15 for 3-credit courses,  
August 16 for 4-credit courses  
M/W Evening Classes: Wednesday, August 16  
T/Th Evening Classes: Thursday, August 17

#### Final Add/Drop Period

Undergraduate On-Campus	Add	Drop
<b>Summer I 5/22-6/30</b>		
Day	5/31	5/31
Eve M/W	5/31	5/31
Eve T/Th	5/31	5/31
<b>Summer II 7/10-8/18</b>		
Day	7/19	7/19
Eve M/W	7/19	7/19
Eve T/Th	7/19	7/19
<b>Online</b>		
5/22-8/18	5/31	5/31
<b>Accelerated</b>		
Online 5/22-7/28	5/26	5/26
<b>8 Weeks</b>		
5/22-7/14	5/26	5/26
<b>Full Term</b>		
5/22-8/18	5/31	5/31
Graduate On-Campus	Add	Drop
<b>Summer I 5/22-6/30</b>		
Day	5/31	5/31
Eve M/W	5/31	5/31
Eve T/Th	5/31	5/31
<b>Summer II 7/10-8/18</b>		
Day	7/19	7/19
Eve M/W	7/19	7/19
Eve T/Th	7/19	7/19
<b>Online</b>		
5/22-8/18	5/31	5/31
<b>Accelerated</b>		
Online 5/22-8/18	5/26	5/26
<b>8 Weeks</b>		
5/22-7/14	5/26	5/26

Add/Drops can be processed in ISIS or Registrar's Office, UML South, Dugan Hall 104, 883 Broadway Street, Lowell.

#### Withdrawal with "W" Notation

Undergraduate On-Campus	
<b>Summer I 5/22-6/30</b>	
Day	6/19
<b>Summer II 7/10-8/18</b>	
Day	8/8
<b>Online</b>	
5/22-8/18	7/28
<b>Accelerated</b>	
Online 5/22-7/28	6/30
<b>8 Weeks</b>	
5/22-7/14	6/30
<b>Full Term 5/22-8/18</b>	
	7/28
<b>Graduate On-Campus</b>	
<b>Summer I 5/22-6/30</b>	
Day	6/23
<b>Summer II 7/10-8/18</b>	
Day	8/11
<b>Online</b>	
5/22-8/18	8/11
<b>Accelerated</b>	
Online 5/22-7/28	7/21
<b>8 Weeks</b>	
5/22-7/14	7/7
<b>Full Term 5/22-8/18</b>	
	7/28

Students withdrawing from any class can do so by using ISIS, <http://isis.uml.edu>



rules rests upon the students themselves. Students holding B-1, B-2, or F-2 Visas may not register for any academic classes. The University of Massachusetts Lowell does not issue I-20 Forms for any Continuing Studies programs. Contact Anne Dean, International Student Advisor at Anne\_Dean@uml.edu.

### Third-Party Payment

All students using company direct payment, military plans, state tuition waivers, or veterans' waivers must mail the appropriate authorization forms to UMass Lowell, Accounts Receivable Office, 883 Broadway Street, Room 101, Lowell, MA 01854-5110. No tuition refund is awarded for late submission of eligibility form. **Students receiving company reimbursement must prepay their own tuition.**

### NOTE:

#### Senior Citizens

Senior citizens (60 years or older) who are Massachusetts residents may attend classes in Continuing Studies credit programs tuition-free provided that there is a sufficient number of tuition-paying students enrolled to bear the cost of instruction and provided there is space available. **Please note that waivers are not retroactive and do not cover registration and other fees. Proof of Massachusetts residency and birth date must be provided annually at the time of registration.** There are no waivers available for online and off-campus courses. Merit and Assistance Grants are available for veterans and seniors taking online courses who are presently enrolled in degree and certificate programs and are making satisfactory academic progress towards their degrees or certificates.

### Tuition Refund Policy

Any eligibility for tuition refund is based on the academic calendar, not class attendance, and is pro-rated as follows, excluding fees:

### Tuition Refund Policy

Before classes begin	100%
Drop from 1st-7th calendar day	80%
Drop from 8th-14th calendar day	50%
After 14th calendar day	No refund

**Tuition will be refunded if Continuing Studies is responsible for cancellations.**

### Financial Aid Refund Policy for Students Receiving Title IV Financial Aid and Who Are Enrolled in a Degree or Specifically Designated Certificate Program

Refunds for Title IV financial aid recipients will be processed according to Federal guidelines and institutional policy. Please call the Financial Aid Office at (978) 934-4220 if you have any questions.

### Financial Aid

For information regarding Financial Aid, please contact Thu-Ha Pham in the Financial Aid Office at (978) 934-4222. See information on Financial Aid, TERI Loans and Scholarships on our website at <http://continuinged.uml.edu>.

### Correct Social Security Number/Tax Identification Number

The University of Massachusetts Lowell must obtain your correct social security number (SSN) to file certain information returns with the IRS as well as to furnish a statement to you. The returns the University must file contain information about qualified tuition and related expenses (Form 1098-T, Tuition Payments Statement). The information about your tuition will help to determine whether you, or the person who can claim you as a dependent, may take the Hope credit or Lifetime Learning credit to reduce the federal income tax.

## Academic Information

The University of Massachusetts Lowell is accredited by the New England Association of Schools and Colleges, which accredits schools and colleges in the six New England states. Membership in the Association indicates that the institution has been evaluated carefully and meets the standards agreed upon by qualified educators. The programs in Civil Engineering Technology, Electronic Engineering Technology, and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The Bachelor of Science in Business Administration (BSBA) is accredited by the AACSB — The International Association for Management Education.

### Catalog

Students should refer to the Continuing Studies and Corporate Education catalog for rules, regulations, program outlines, and course descriptions. The catalog is available online at <http://continuinged.uml.edu>.

### Admission into an Undergraduate Certificate or Degree Program

Students who have graduated from high school or who have earned a high school equivalency certificate are invited to apply for programs leading to a Certificate or an Associate's or Bachelor's degree. Applications for all programs are accepted on a rolling admissions basis. Please send applications to UML Admissions/Continuing Studies and Corporate Education, c/o Kathleen Shannon, Dugan Hall 110, 883 Broadway Street, Lowell, MA 01854-5104. For a listing of our degree and certificate programs, please see pages 8-17. A student enrolled in any of our degree or certificate programs should schedule an appointment with the appropriate program advisor to help plan

a schedule for degree or certificate completion. Please call Continuing Studies at (978) 934-2474 to learn about our programs or see our website at <http://continuinged.uml.edu>.

### Admission into a Graduate Certificate or Degree Program

Students interested in applying into Graduate degree or certificate programs should contact the Graduate School at (800) 656-GRAD or [www.uml.edu/grad](http://www.uml.edu/grad). Students with Bachelor's degrees from accredited institutions are eligible to enroll as non-degree students for a total of 12 credits prior to matriculating into formal Graduate degree programs. Students must formally apply to Graduate certificate programs before enrolling in Graduate courses intended for specific certificate programs.

### Undergraduate Degree Completion

Students who expect to complete their degree requirements in the 2005-2006 academic year must arrange for a graduation interview. Please call Continuing Studies at (978) 934-2474. Students who anticipate graduating at the end of the Spring semester must complete the interview process by April 20, 2006 and complete the exit interview. Students who anticipate graduating at the end of the Summer sessions must complete the interview process by June 23, 2006. The University officially awards degrees to Fall graduates in February of the following semester and diplomas will be available for students in March. Commencement will be held on June 4, 2006.

### Undergraduate Certificate Completion

When a student completes the necessary courses for a certificate program, the student should complete and submit a Certificate Award Petition and exit interview to Continuing Studies and Corporate Education. See the Continuing Studies website under Miscellaneous Forms at <http://continuinged.uml.edu>.

### Course Grades

Grades for the Spring and Summer semester will be available on ISIS, the Inter-campus Student Information System.

## Faculty & Student Support Information

Students are welcome to drop by Continuing Studies, located in the Paley Room, Southwick Hall 202, UML North, or Registrar's Office, Dugan Hall, Room 104 UML South from 8:30 am to 8:00 pm Monday-Thursday and 8:30 am to 5:00 pm Friday to obtain general information on Associate's and Bachelor's degrees and certificate programs, and/or to obtain brochures. Call (978) 934-2474 for information or email at [Continuing\\_Education@uml.edu](mailto:Continuing_Education@uml.edu). For questions on Graduate programs, call the Graduate School at (978) 934-2380 or (800) 656-GRAD or see the website at [www.uml.edu/grad](http://www.uml.edu/grad).

### Appointments with Faculty Program Coordinators

Students may schedule appointments with Faculty Program Coordinators and Faculty and Student Support Specialists. Faculty Evening Supervisors are available to answer questions and conduct status reviews. Students are encouraged to call Continuing Studies and Corporate Education at (978) 934-2474 to schedule an appointment. Most appointments are held on UML North in the Faculty and Student Support Center. Appointments for the Liberal Arts programs are held in Coburn Hall, Room 105, UML South.

### Faculty Program Coordinators and Advisors

Biology, Chemistry, Environmental Science, Physics:

Paul Damour, Associate Professor

Civil Engineering Technology:

Michael Berry

Electronic Engineering Technology:

Fahd Wakim, Professor

Information Technology:

Ann Marie Hurley, Professor

Liberal Arts, Criminal Justice, Paralegal Studies:

Joseph Lipchitz, Professor

Liberal Arts, Psychology:

Richard Siegel, Professor

Mathematics: Alan Doerr, Professor

Mechanical Engineering Technology:

Robert Tuholski, Professor, Engineering

Technology Department Head

Mechanical Engineering Technology:

Glenn Sundberg, Assistant Professor

Plastics Engineering Technology:

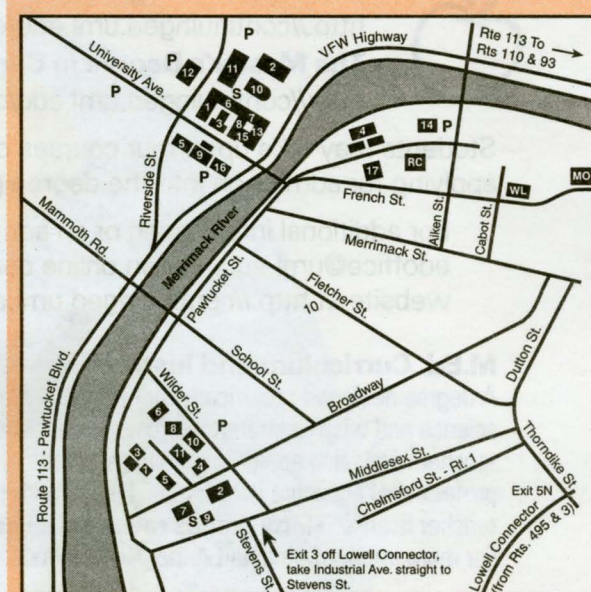
Stephen Driscoll, Professor

### Faculty Evening Supervisors

Professor Alan Doerr

Professor Bernard Shapiro

## Campus Information



### North

- 1 BL Ball Engineering Ctr.
- 2 Costello Gym
- 3 Cumnock Hall
- 4 Dormitories
- 5 Eames Hall
- 6 EB Engineering
- 7 FA Falmouth
- 8 KI Kitson
- 9 LL Alumni/Lydon Library
- 10 EC Pinanski
- 11 OH Olney
- 12 OS Olsen
- 13 PA Pasteur
- 14 Research Foundation
- 15 SO Southwick Hall
- 16 Smith Hall
- 17 Fox Student Union
- P Parking
- S Security

### South

- 1 Allen Hall
- 2 CO Coburn
- 3 Concordia Hall
- 4 Dining Hall
- 5 DU Dugan Hall
- 6 DR Durgin Hall
- 7 MA Mahoney Hall
- 8 OL O'Leary Library
- 9 Power Plant
- 10 SU Student Union
- 11 WE Weed Hall
- P Parking
- S Security

### Downtown

- MO Mogan Center
- WL Wannalancit

For UMass Lowell online directions, go to [www.uml.edu/maps](http://www.uml.edu/maps). For UMass Lowell directions, call (978) 934-5800.

### Parking

New parking stickers are required for all Continuing Studies students. The Parking Registration Form is available at <http://parking.uml.edu>.

This sticker entitles students to park after 5:30 pm in a University parking lot except Cumnock Hall. Students are encouraged to park in the numerous parking lots on the UML North and UML South. **Students and faculty should not compromise public safety by blocking access of fire lanes, ambulance and other emergency vehicles.** Students and faculty should not park in handicap spaces unless they display a handicap sticker. Student and faculty cars will be towed and/or ticketed for violations. In addition, the Lowell Police will tow student and faculty cars if cars are parked in "Residential Parking" areas.

Please call the Student and Faculty Support Center at (978) 934-2474 for the locations of parking lots available for use by Continuing Studies students who visit the campus during the day.

### Locating Your Classroom

Refer to the map and building key above to locate where your class will be held. If your class has not been assigned a classroom when you register, please check ISIS Web-Self Service at <http://isis.uml.edu>.

### University Escort Service

The University now operates a motorized escort service seven nights a week from 6:00 pm to 1:00 am. Call Ext. 2222 for a ride anywhere on campus — from the parking lots, to the libraries, the residence halls, or the gym. It is a service designed for the entire University community day and evening students, staff, and faculty.

This newspaper is printed at no cost to the Commonwealth of Massachusetts. The University of Massachusetts Lowell is an Equal Opportunity/Affirmative Action University and does not discriminate in employment or access to programs or services on the basis of race, sex, sexual orientation, color, national origin, religion, handicap, or veteran's status and is in compliance with Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans With Disabilities Act, 1990. Any inquiries and/or grievances may be referred to the Affirmative Action Officer, the Title IX Coordinator, the Disabilities Coordinator and/or to the Director, Office for Civil Rights, U.S. Department of Health and Human Services, Washington, D.C.

Every effort has been made to ensure the accuracy of the information presented in this bulletin. However, Continuing Studies and Corporate Education (CSCE) reserves the right to implement new rules and regulations and to make changes of any nature in its program, calendar, procedures and standards, degree requirements, and academic schedules (including, without limitations, changes in course content and class schedules), locations, tuition, and fees. Whenever possible, appropriate notice of such changes will be given before they become effective. When changes are necessary, Continuing Studies exerts reasonable efforts to provide comparable or substantially equivalent instructional services and facilities for those originally designated. However, CSCE assumes no liability for failure to deliver or for delay in delivering such services (including those in support of academic functions or student life) when the causes for such failure or delay are beyond the reasonable control of Continuing Studies — which causes include, without limitation, the following: power failure, fire, accident, natural disaster, work slowdown and strikes, loss of personnel, and acts of public authorities. In registering for courses, each student assumes full responsibility for knowledge of and compliance with the definitions, regulations, and procedures for the University as set forth in the appropriate publications and bulletins.



